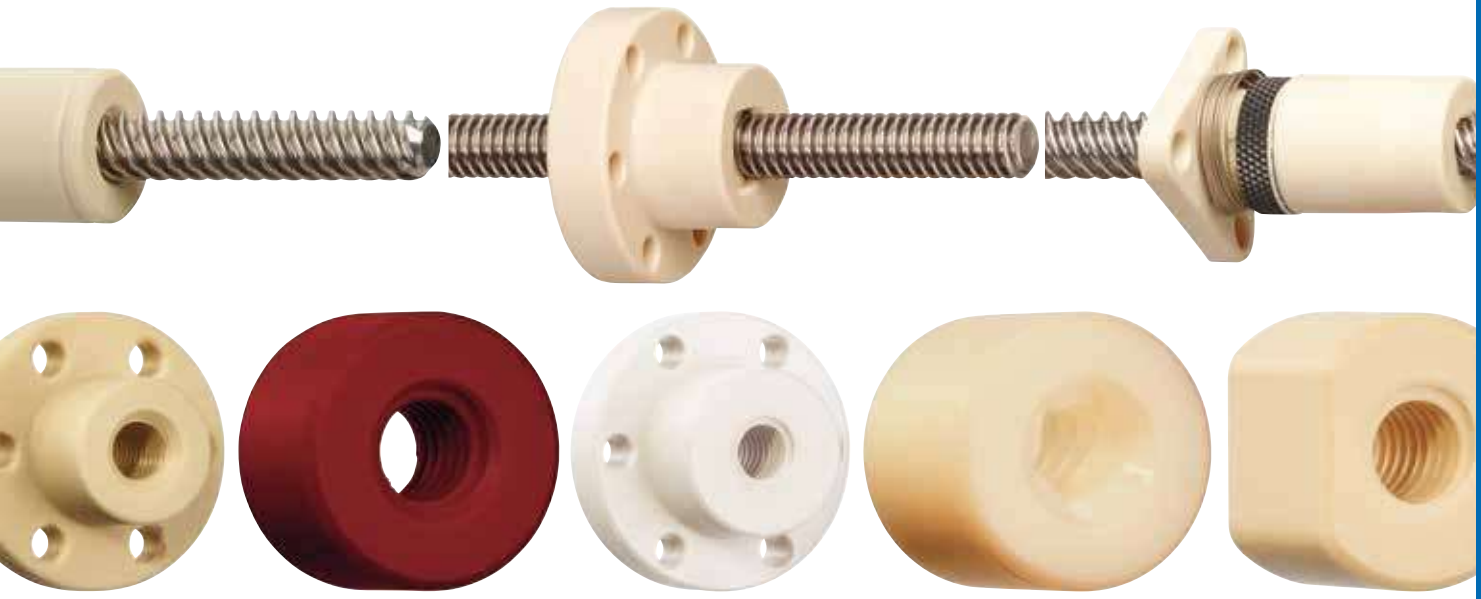
drylin®...

Lead screw technology



...plastics

drylin® lead screw technology | Product overview

drylin® lead screw technology – high helix thread with dryspin® technology

High helix lead screws made of stainless steel and aluminium
▶ Page 1244

High helix lead screws with right/left opposite drive
▶ Page 1248

Cylindrical lead screw nuts
▶ Page 1254

Lead screw nuts with flange
▶ Page 1260

Lead screw nuts with spanner flat, with flange
▶ Page 1264

Cost-effective injection-moulded lead screw nuts, cylindrical/with flange
▶ Page 1268

Lead screw nuts with pre-load iglidur® J
▶ Page 1277

Lead screw nuts, zero-backlash iglidur® J
▶ Page 1279

drylin® lead screw technology – trapezoidal and metric threads

Lead screws C15
▶ Page 1288

Lead screws made of stainless steel
▶ Page 1288

Lead screws made of aluminium
▶ Page 1288

Lead screws with machined end
▶ Page 1288

drylin® lead screw technology – trapezoidal and metric threads

Multi start lead screws
▶ Page 1290

LH/RH lead screws
▶ Page 1292

Metric lead screws
▶ Page 1294

Cylindrical lead screw nuts, single start
▶ Page 1300

drylin® lead screw technology – trapezoidal and metric threads

Cylindrical lead screw nuts, multi start
▶ Page 1304

Cylindrical lead screw nuts with spanner flat
▶ Page 1306

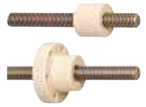
Lead screw nuts with flange, single start
▶ Page 1308

Lead screw nuts with flange, multi start
▶ Page 1310

Lead screw nuts with spanner flat, with flange
▶ Page 1312

Cylindrical lead screw nuts, lead screw nuts with flange metric
▶ Page 1314

Cost-effective injection-moulded lead screw nuts
▶ Page 1316


Anti-backlash lead screw nuts
▶ Page 1324

drylin® lead screw technology – trapezoidal and metric threads

Flange lead screw nuts with pre-load
▶ Page 1326

drylin® lead screw technology – special designs

Split lead screw nuts made from iglidur® J
▶ Page 1328

Lead screw nuts for linear modules
▶ Page 1330

Lead screw nuts with locating spigot
▶ Page 1334

Spherical lead screw nuts in flanged bearing housing
▶ Page 1336

drylin® lead screw technology – special designs

Spherical lead screw nuts in pillow block bearing housing
▶ Page 1337

Lead screw nuts with quick-release
▶ Page 1338

drylin® discs, made from iglidur® J
▶ Page 1339

Complete lead screw nut housing, including lead screw nut
▶ Page 1340

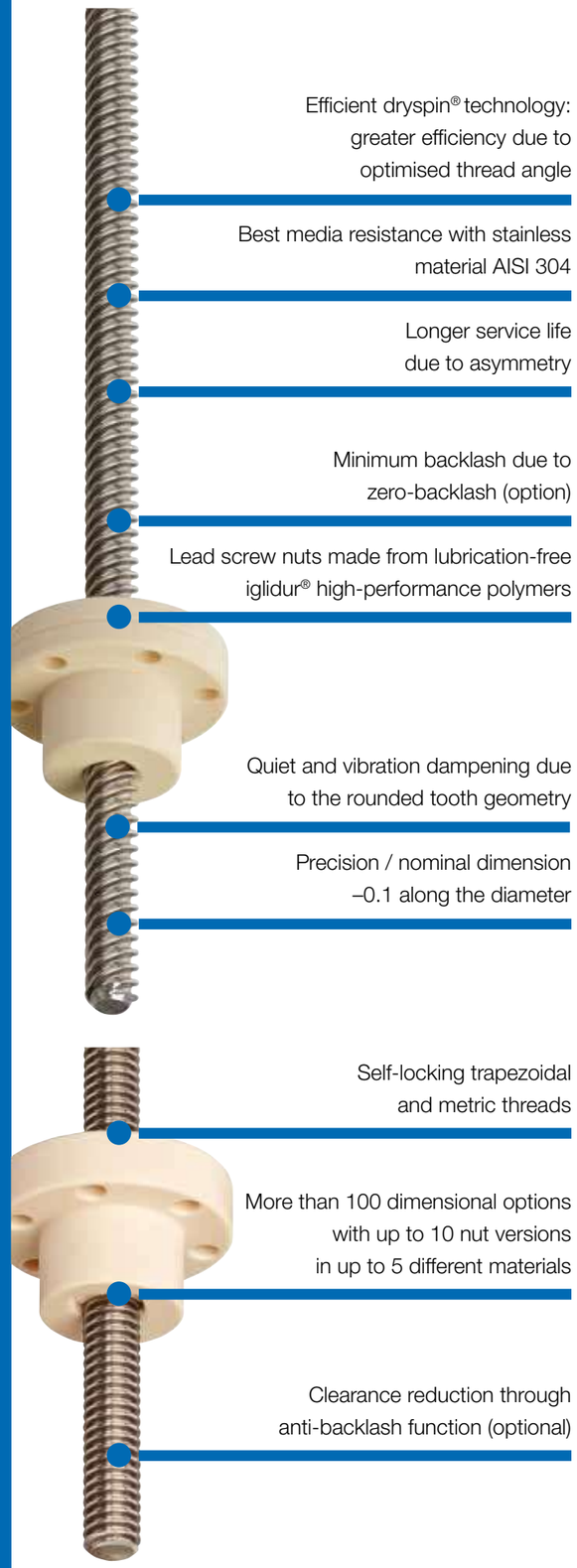
Lead screw support blocks with plain bearings
▶ Page 1342

Lead screw support blocks with ball bearings
▶ Page 1346

Clamping rings
▶ Page 1348

The biggest online lead screw shop
▶ www.igus-asean.com/leadscrewshop

Maintenance-free, quiet operation, dirt-resistant and corrosion-resistant



Lubrication-free drylin® lead screw technology

Lead screw drives are machine elements that convert rotary movement into linear motion. drylin® lead screw drives are always based on self-lubricating plastic nuts, enabling long-lasting operation without external lubrication. The dryspin® technology offers a longer service life and greater efficiency for high helix threads thanks to the properties and geometries being tailored to the plastic nut and the lead screw.

- Efficient and durable dryspin® high helix threads
- Self-locking trapezoidal and metric threads
- Maintenance-free dry operation
- Silent
- Corrosion-free
- Resistant to dirt

Typical application areas

- Format adjustments
- Drive technology
- Optical equipment
- Furniture industry
- Automotive industry

Available from stock
Detailed information about delivery time online.

Price breaks online
No minimum order value. No minimum order quantity.

Max. +150°C
Min. –20°C

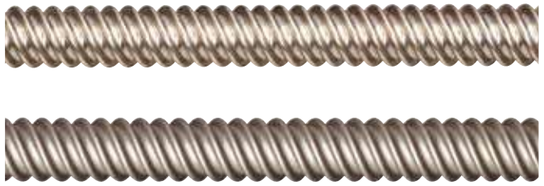
Service life calculation
▶ www.igus-asean.com/drylin-expert

Imperial dimensions and ACME thread (USA standard) ▶ Page 1620

RoHS-II

In accordance with EC Directive 2011/65/EU (RoHS 2) Restriction (of the use of certain) hazardous substances

High helix threads with dryspin® technology



High helix lead screws

- Material: stainless steel or anodised aluminium
- Better efficiency due to optimised thread angle
- Quiet due to rounded tooth geometry
- Long service life due to asymmetric dryspin® geometry

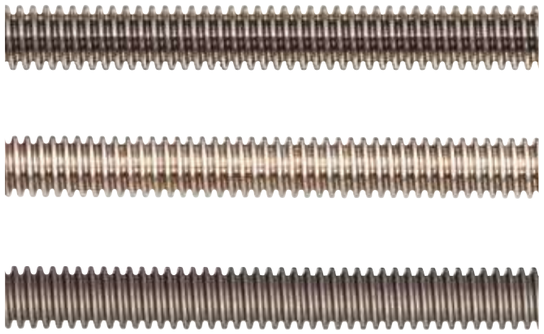
▶ **From page 1244**

High helix lead screw nuts

- Lubrication-free lead screw nuts made from 5 materials
- Types: Cylindrical, with flange or spanner flat
- Reduced clearance through zero-backlash

▶ **From page 1254**

Self-locking trapezoidal and metric threads



Trapezoidal and metric lead screws

- Material: steel, stainless steel or anodised aluminium
- Product range from M3 to Tr50x8
- Multi start lead screws and right/left opposite drive available

▶ **From page 1288**

Trapezoidal and metric lead screw nuts

- Lubrication-free lead screw nuts made from 10 different materials
- Types: Cylindrical, with flange or spanner flat
- Clearance reduction via anti-backlash feature

▶ **From page 1300**

Special designs

- Lead screw nuts for drylin® linear modules, with flange or locating spigot
- Split and spherical lead screw nuts with housing
- Disc for customised clearance adjustment
- Fast-Forward quick release nut for fast adjustment

▶ **From page 1327**

Lead screw technology accessories

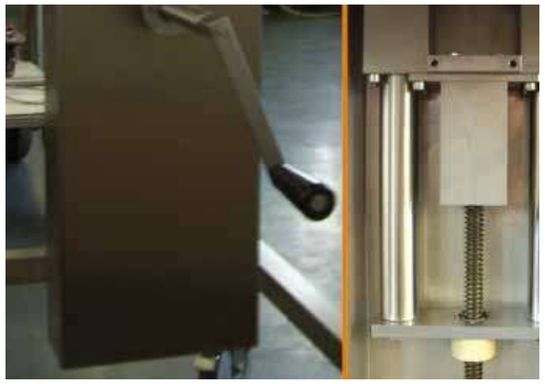
- Nut housing for drylin® lead screw nuts
- Anodised lead screw support blocks, on plain or ball bearings
- Clamping ring for securing lead screw

▶ **From page 1342**

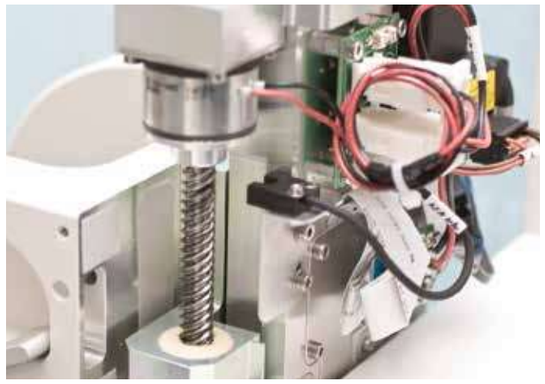
drylin® lead screw technology | Application examples

This mixing station uses two drylin® trapezoidal lead screw nuts made from iglidur® high-performance polymers for the optimal mixing ratio of a two-component silicone mass.

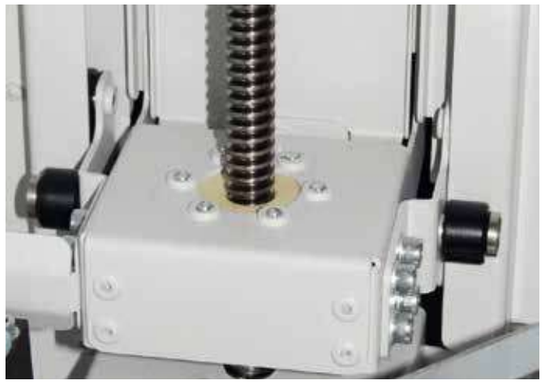
The customer was looking for a cost-effective, lightweight and maintenance-free standard solution for small installation space. Costs and weight could be reduced thanks to the lubrication-free products from igus®.



iglidur® J plain bearings for shaft guides and drylin® trapezoidal lead screw nuts for the height adjustment.



Clean use of lubrication-free drylin® trapezoidal lead screw nuts in a piece of laboratory equipment for liquid handling.

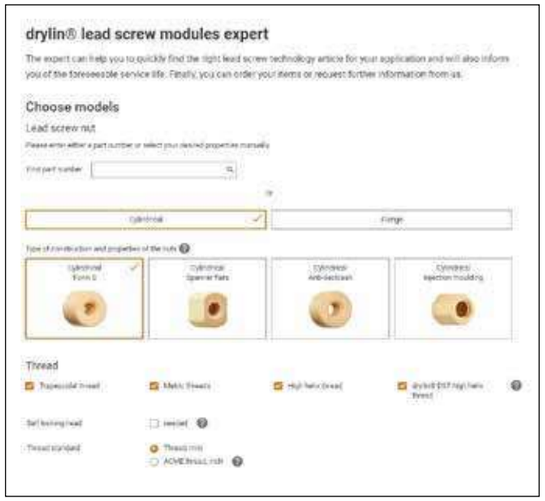


drylin® lead screw drives are used for feed mechanisms. In this, the customer combines a trapezoidal lead screw nut from iglidur® W300 with a rolled trapezoidal lead screw.

All of the main components of the mechanical movements, such as the linear axis, plain bearings, guide systems, etc. use igus® products.

drylin® lead screw technology | Online tools

drylin® lead screw drive expert and configurator



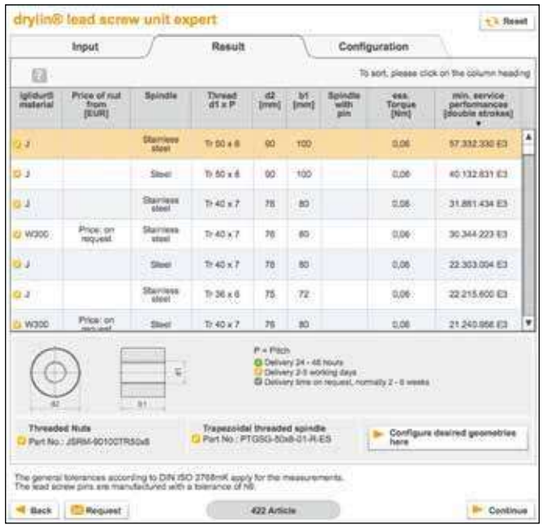
Expert for lead screw drives: Find and calculate suitable lead screw drives

Our drylin® expert systems for lead screw drives help you to find the right product quickly whilst giving the predicted service life. You have the option to configure and request your required dimension for lead screw nuts and lead screws.

▶ **www.igus-asean.com/leadscrew-expert**

Download the online tool app now

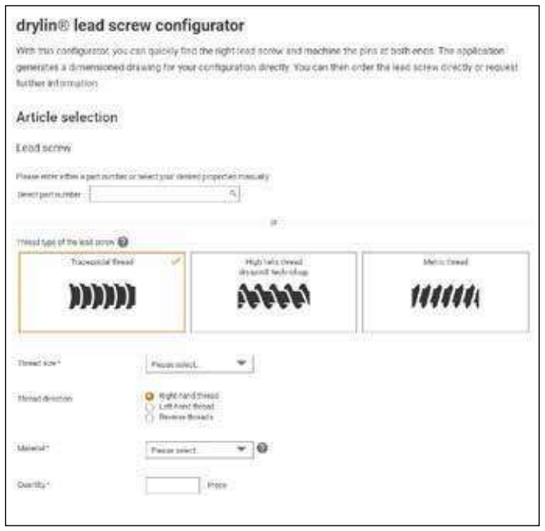
Download on the App Store



Configurator for lead screw drives: configure required dimensions

Ask quickly and easily for lead screw nuts and lead screws in individual dimensions.

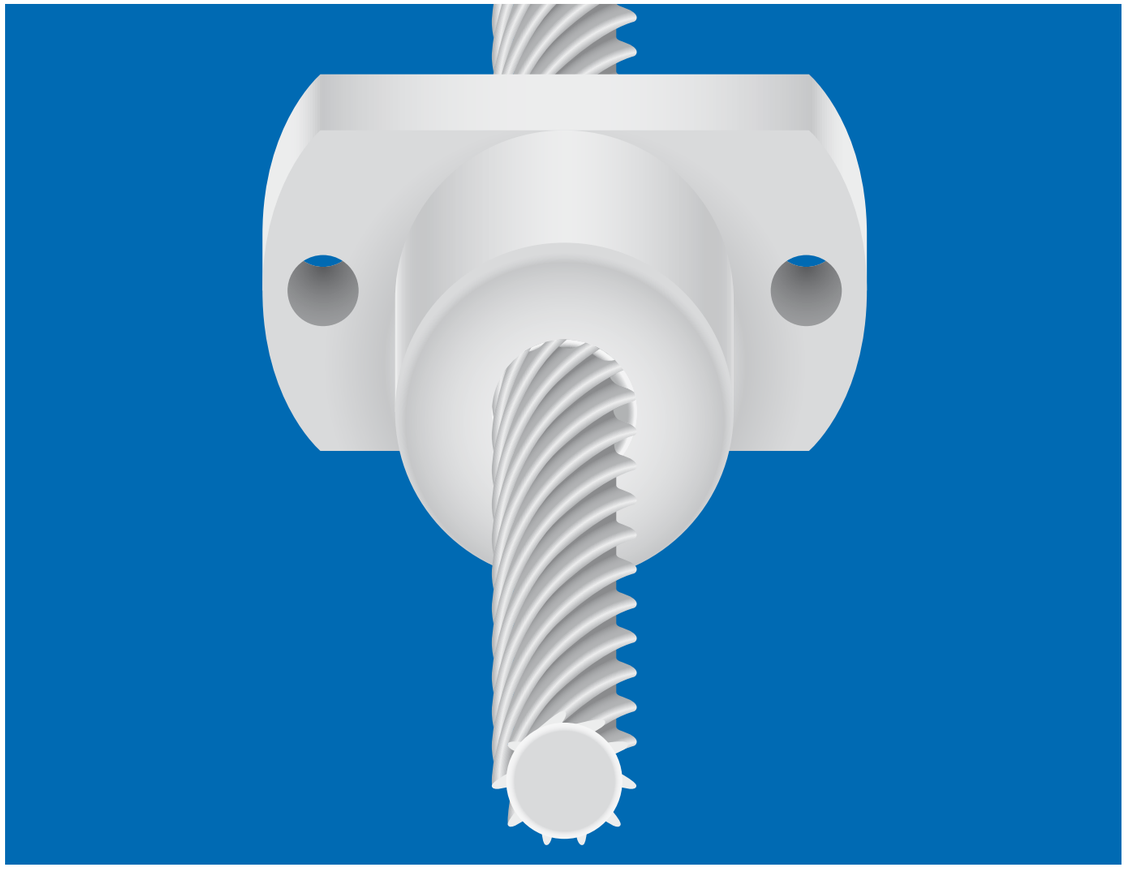
▶ **www.igus-asean.com/leadscrew-configurator**



Lead screw configurator

Individually configured lead screws and machined ends can now be generated with just a few clicks. In addition to selection of the lead screw geometry and the materials, there are up to 7 options for machined ends.

▶ **www.igus-asean.com/leadscrew-configurator**



drylin® lead screw technology – dryspin® technology

- Efficient high helix thread
- Lead screw nuts made from lubrication-free dry-tech® tribo-polymers
- High efficiency and longer service life
- Quiet operation with vibration dampening
- Resistant to dirt

More combinations available in the thread section

The right lead screw nut material for every technical requirement

Starting immediately, there are drylin® lead screw nuts from the full range available for every technical requirement. The full range includes lead screw nuts from 6 lubrication-free iglidur® high-performance polymers, in cylindrical design or flange variations. The ideal nut and lead screw for every application.

- Lubrication and maintenance-free
- Service life can be calculated online
- No minimum order value
- No minimum order quantity

Find and calculate suitable lead screw drives
▶ www.igus-asean.com/leadscrewdrives-finder

High efficiency at all speeds:
iglidur® J ▶ Page 159
- High speed
- Low wear
- Best coefficient of friction

For temperatures up to +150°C:
iglidur® J350 ▶ Page 204
- For high temperatures
- Good coefficient of friction with medium loads

For medium to high speeds:
iglidur® R ▶ Page 247
- High wear resistance for low loads
- Low moisture absorption
- Vibration-dampening

FDA-compliant for the food and pharmaceutical industry:
iglidur® A180 ▶ Page 401
- FDA-compliant
- For contact with food

Best running partner for hard anodised aluminium:
iglidur® J200 ▶ Page 261
- Low coefficient of friction and wear
- Long service life

For high speeds:
iglidur® E7 ▶ Page 267
- Low loads up to 200N
- Speeds up to 1,200rpm

Six standard materials

	Unit	iglidur® J	iglidur® J350	iglidur® R	iglidur® A180	iglidur® E7	iglidur® J200
General properties							
Density	[g/cm³]	1.49	1.44	1.39	1.46	1.05	1.72
Colour		yellow	yellow	red	white	dark grey	matt grey
Max. moisture absorption at +23°C and 50% relative humidity	[% weight]	0.30	0.30	0.20	0.20	0.1	0.2
Max. total moisture absorption	[% weight]	1.30	1.60	1.10	1.30	0.1	0.7
pv value, max. (dry)	[MPa·m/s]	0.34	0.45	0.27	0.31	0.08	0.30
Mechanical properties							
Permissible surface pressure in thread at +20°C	[MPa]	4.0	3.0	2.0	3.5	0.5	2.0
Shore D hardness		74	80	77	76	61	70
Physical and thermal properties							
Max. continuous operating temperature	[°C]	+90	+150	+90	+90	+70	+90
Max. short-term operating temperature	[°C]	+120	+150	+90	+90	+70	+90
Min. continuous operating temperature	[°C]	–20	–20	–20	–20	–20	–20
Thermal conductivity	[W/m · K]	0.25	0.24	0.25	0.25	0.25	0.24
Coefficient of thermal expansion at +23°C	[$K^{-1} \cdot 10^{-5}$]	10	7	11	11	11	8
Electrical properties							
Specific contact resistance	[Ωcm]	> 10^{13}	> 10^{13}	> 10^{12}	> 10^{12}	> 10^{9}	> 10^{8}
Surface resistance	[Ω]	> 10^{12}	> 10^{10}	> 10^{12}	> 10^{11}	> 10^{9}	> 10^{8}
More material properties	**Page**	**159**	**204**	**247**	**401**	**267**	**261**

Higher efficiency due to optimised thread angle

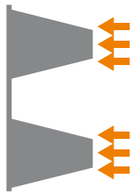
Due to a flatter thread angle in dryspin® high helix lead screws (similar to a trapezoidal thread), the applied force is efficiently converted into a linear motion. Compared with a steeper thread angle, this means a lower power loss.

Steeper thread angle, standard geometry

Flatter thread angle, dryspin® geometry

Silent and vibration-dampening due to rounded tooth geometry

Due to the rounded tooth geometry, the contact surface between the lead screw nut and the lead screw is reduced. Thereby the dryspin® lead screw nuts move without vibration, virtually noiselessly. This is because, the greater the contact of two surfaces moving against one another, the more vibrations are transmitted, which can be perceived as a rattle or squeak. The round teeth minimise this effect and the thread moves without lubrication and with no noise.



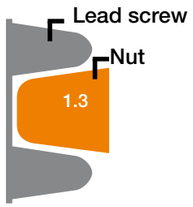
Angular tooth profile, standard geometry

Rounded tooth profile, dryspin® geometry

Longer service life due to asymmetry

Due to the larger distances between the individual dryspin® thread pitches, the thread ideally matches the properties of the lubrication-free igus® high-performance polymers. The proportion of the tribologically optimised polymer in the thread pitches can be extended by a factor of 1.3 for all sizes. More wear-resistant material and higher levels of efficiency are crucial for up to 5 times longer service life of standard geometries. The larger the lead screw diameter, the stronger the impact of this effect. Backlash can be minimised life-long with the use of dryspin® zero-backlash lead screw nuts with integrated spring pre-load.

Symmetrical standard geometry



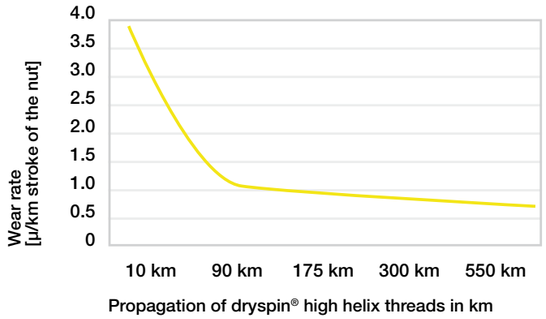
Asymmetrical dryspin® geometry

Tested: Lubrication-free iglidur® materials from igus®

Liners, sliding elements and lead screw nuts from drylin® adapted for your application: lubrication-free, tested and predictable.

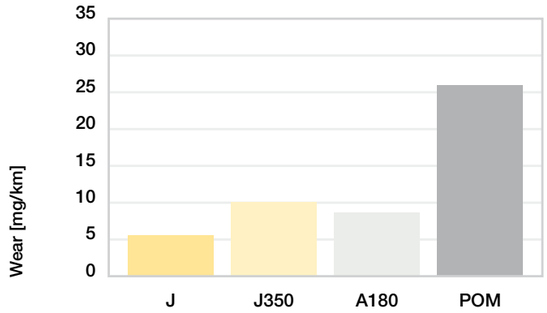
- 12,000 tribology tests per year
- More than 300 parallel test facilities
- 140 trillion test movements
- Continuous testing of drylin® products

▶ www.igus-asean.com/test

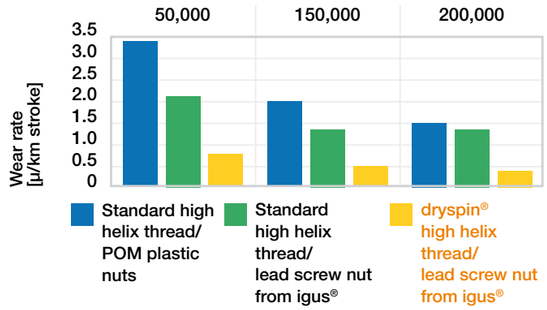


Wear test dryspin® high helix thread
DST 10x25, load 175N, 540mm stroke, 125rpm

dryspin® technology | Technical data

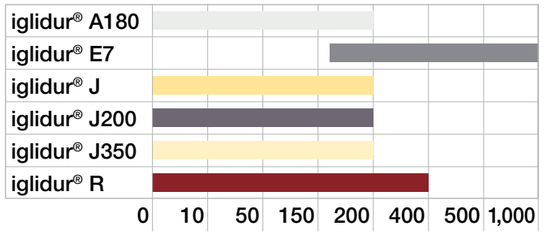


Wear test on C15 lead screw [mg/km]
Stroke 140mm, 50N, lead screw C15 rolled, 450rpm

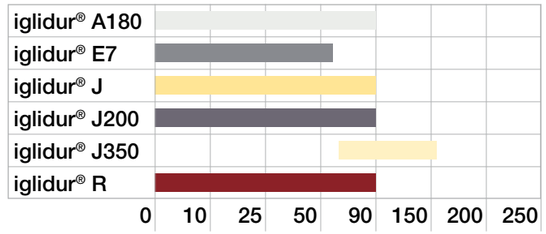


Wear-resistant high helix thread 10x50, dryspin® high helix thread / standard high helix thread, load 36N, 100rpm for 50,000/150,000/200,000 cycles

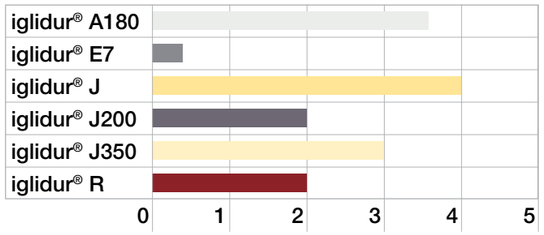
Correct choice of material



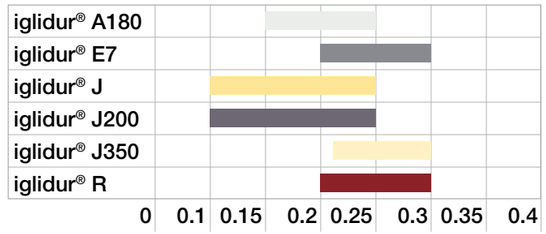
Speed [rpm]



Temperature [°C]



Surface pressure in thread [MPa]



Coefficient of friction [µ]

iglidur® J200 most suitable in combination with hard anodised aluminium

dry-tech® tribo-plastics

igus® high-performance polymers are used in all drylin® linear and drive units as well as lead screw drives. The lubrication is incorporated into the bearing material, rendering the bearing materials suitable for dry operation, i.e. they are maintenance-free for their entire service life.

Material selection

drylin® lead screw nuts are made from tribologically optimised materials. Already during the development phase, the focus is on optimising the friction properties of the drylin® lead screw drives, with the objective of attaining the lowest possible coefficient of wear and friction.

Service life

Every year, several hundred tests are set up and performed on test rigs in the igus® test laboratory. The results are incorporated into easily accessible online tools, where the service life and the required torque can be determined.

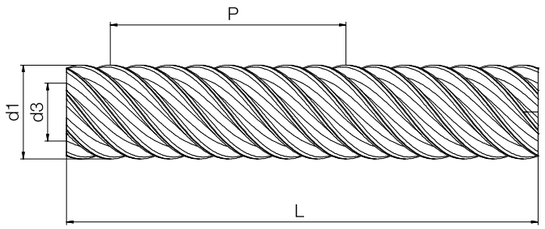
▶ www.igus-asean.com/leadscrew-expert

dryspin® technology | Lead screws | Product range

dryspin® high helix lead screws – corrosion-resistant

Stainless steel, rolled, AISI 304

Aluminium, rolled (EN AW 6082)



Technical data

Helix deviation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa per mm² (elongation limit 0.2mm).

Technical data

Thread	Hand of rotation right	Hand of rotation left	Material Stainless steel AISI 304	Material Aluminium EN AW 6082	Pitch P [mm]	Number of thread pitches	Pitch angle α [°]	Weight Stainless steel [kg/m]	Weight Aluminium [kg/m]
Ds4x2.4	●	–	●	–	2.4	2	10.81	0.10	–
Ds5x5	●	–	●	–	5.0	2	17.70	0.20	–
Ds6.35x2.54	●	●	●	–	2.54	2	7.26	0.25	–
Ds6.35x5.08	●	–	●	–	5.08	4	14.29	0.25	–
Ds6.35x12.7	●	–	●	–	12.7	4	32.48	0.25	–
Ds6.35x25.4	●	–	●	–	25.4	8	51.85	0.25	–
Ds8x10	●	●	●	●	10.0	4	21.70	0.40	0.14
Ds8x15	●	●	●	●	15.0	6	30.83	0.40	0.14
Ds8x24	●	–	●	–	24.0	8	43.70	0.40	–
Ds10x3	●	–	●	–	3.0	2	5.45	0.62	–
Ds10x12	●	●	●	●	12.0	4	21.54	0.62	0.21
Ds10x25	●	●	●	●	25.0	8	38.51	0.62	0.21
Ds10x50	●	●	●	●	50.0	10	57.86	0.62	0.21
Ds12x5	●	–	●	●	5.0	2	7.55	0.89	0.31
Ds12.7x12.7	●	–	●	–	12.7	4	17.65	0.90	–
Ds12x15	●	–	●	–	15.0	5	21.90	0.98	–
Ds12x25	●	–	●	●	25.0	8	33.55	0.89	0.31
Ds14x25	●	●	●	●	25.0	5	29.61	1.22	0.42
Ds14x30	●	–	●	●	30.0	6	34.30	1.22	0.42
Ds14x40.6	●	–	●	–	40.6	8	42.71	1.22	0.42
Ds16x35	●	–	●	●	35.0	7	34.85	1.59	0.54
Ds18x24	●	●	●	●	24.0	6	22.99	2.01	0.69

Available from stock
Upon request

Order key

Part number	Thread	Options

DST-LS-10X50-R-1000-ES

dryspin® technology | Lead screw | Diameter | Pitch | Hand of rotation | Length [mm] | Lead screw material

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
ES: Stainless steel, rolled
AL: Aluminium, rolled

Please contact us!
All drylin® leads screws can be custom machined. Please send us your drawing or configure online. We can then provide a quotation quickly.
▶ **www.igus-asean.com/leadscrew-configurator**

Dimensions [mm]

Outer Ø d1 –0.1	Core Ø d3 –0.1	Max. total length L ES	Max. total length L AL	Part No.	
4.0 –0.05	3.0 –0.1	1,000	1,000	DST-LS-4X2.4-R-□-ES	
5.0	3.30	1,000	–	DST-LS-5X5-R-□-ES	New
6.35 –0.05	4.35 –0.05	1,000	1,000	DST-LS-6.35X2.54-□-□-ES	
6.35 –0.05	4.85 –0.05	1,000	1,000	DST-LS-6.35X5.08-R-□-ES	
6.35 –0.05	4.35 –0.05	1,000	1,000	DST-LS-6.35X12.7-R-□-ES	
6.35 –0.05	4.15 –0.05	1,000	1,000	DST-LS-6.35X25.4-R-□-ES	
8.0	5.63	1,000	1,000	DST-LS-8X10-□-□-ES	
8.0	5.63	1,000	–	DST-LS-8X15-□-□-ES	
8.0	5.55	1,000	–	DST-LS-8X24-R-□-ES	New
10.0	7.85	3,000	–	DST-LS-10X3-R-□-ES	New
10.0	6.95	3,000	1,000	DST-LS-10X12-□-□-ES	
10.0	7.10	3,000	1,000	DST-LS-10X25-□-□-ES	
10.0	7.35	3,000	1,000	DST-LS-10X50-□-□-ES	
12.0	9.60	3,000	1,500	DST-LS-12X5-R-□-ES	
12.7	9.60	3,000	–	DST-LS-12.7X12.7-R-□-ES	New
12.0	9.00	3,000	–	DST-LS-12X15-R-□-ES	New
12.0	8.95	3,000	1,500	DST-LS-12X25-R-□-ES	
14.0	9.60	3,000	1,500	DST-LS-14X25-□-□-ES	
14.0	9.60	3,000	1,500	DST-LS-14X30-R-□-ES	
14.0	9.65	3,000	1,500	DST-LS-14X40.6-R-□-ES	
16.0	11.60	3,000	1,500	DST-LS-16X35-R-□-ES	
18.0	14.28	3,000	1,500	DST-LS-18X24-□-□-ES	

dryspin® technology | Lead screws | Product range

dryspin® high helix lead screws – corrosion-resistant

Technical data

Thread	Hand of rotation right	Hand of rotation left	Material Stainless steel AISI 304	Material Aluminium EN AW 6082	Pitch P [mm]	Number of thread pitches	Pitch angle α [°]	Weight Stainless steel [kg/m]	Weight Aluminium [kg/m]
Ds18x40	●	●	●	●	40.0	8	35.55	2.01	0.69
Ds18x80	●	●	●	●	80.0	12	54.74	2.01	0.69
Ds18x100	●	●	●	●	100.0	12	60.51	2.01	0.69
Ds20x20	●	●	●	●	20.0	4	17.66	2.48	0.85
Ds20x50	●	–	●	●	50.0	8	38.51	2.48	0.85
Ds20x60	●	●	●	●	60.0	8	43.68	2.48	0.85
Ds20x80	●	●	●	●	80.0	12	55.07	2.48	0.85
Dx20x90	●	●	●	●	90.0	12	55.08	2.48	0.85

Dimensions [mm]

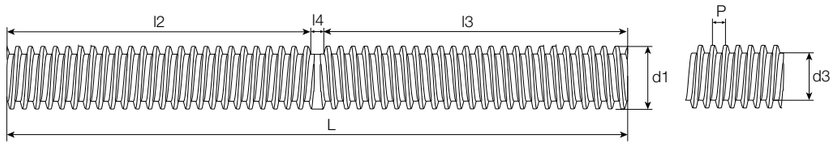
Outer Ø d1 –0.1	Core Ø d3 –0.1	Max. total length L ES	Max. total length L AL	Part No.
18.0	13.60	3,000	1,500	DST-LS-18X40-□-□-ES
18.0	14.00	3,000	1,500	DST-LS-18X80-□-□-ES
18.0	13.55	3,000	1,500	DST-LS-18X100-□-□-ES
20.0	15.60	3,000	1,500	DST-LS-20X20-□-□-ES
20.0	15.48	3,000	1,000	DST-LS-20X50-□-□-ES
20.0	15.55	3,000	1,500	DST-LS-20X60-□-□-ES
20.0	15.98	3,000	1,500	DST-LS-20X80-□-□-ES
20.0	15.55	3,000	1,500	DST-LS-20X90-□-□-ES

Available from stock
Upon request

dryspin® technology | Lead screws | Product range

dryspin® high helix lead screw – with right/left opposite drive

Stainless steel, rolled, AISI 304



Technical data

Thread	Max. transferrable torque	Max. tensile strength	Material Stainless steel	Pitch P	Number of thread pitches	Pitch angle α
	[Nm]	[N]	AISI 304	[mm]		[°]
Ds10x12	2.0	450	●	12	4	21.54
Ds10x25	2.0	450	●	25	8	38.51
Ds10x50	2.0	450	●	50	10	57.86
Ds14x25	4.0	1,000	●	25	5	29.61
Ds18x24	7.5	1,600	●	24	6	22.99
Ds18x40	7.5	1,600	●	40	8	35.55
Ds18x80	7.5	1,600	●	80	12	54.74
Ds18x100	7.5	1,600	●	100	12	60.51

[46] Non-usable thread transition
[47] Length right-hand thread (l3)
[48] Length left-hand thread (l2)

Order key

Part number	Thread	Options

DST-LS-10X50-R/L-480-480-ES

dryspin® technology	Lead screw	Diameter	Pitch	Hand of rotation	[47] Length right [mm]	[48] Length left [mm]	Lead screw material

Options:
[47] **l3:** Length right-hand thread
[48] **l2:** Length left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
ES: Stainless steel, rolled

Please contact us!
All drylin® leads screws can be custom machined. Please send us your drawing or configure online.
We can then provide a quotation quickly.
▶ **www.igus-asean.com/leadscrew-configurator**

Dimensions [mm]

Outer Ø d1	Core Ø d3	Thread transition	Max. thread length		Max. total length	Part No.
–0.10	–0.10	l4[46]	l2[48]	l3[47]	L	
10	6.95	25	487	487	1,000	**DST-LS-10X12-R/L-l2-l3-ES**
10	7.10	25	487	487	1,000	**DST-LS-10X25-R/L-l2-l3-ES**
10	7.35	25	487	487	1,000	**DST-LS-10X50-R/L-l2-l3-ES**
14	9.60	25	987	987	2,000	**DST-LS-14X25-R/L-l2-l3-ES**
18	14.40	25	987	987	2,000	**DST-LS-18X24-R/L-l2-l3-ES**
18	1360	25	987	987	2,000	**DST-LS-18X40-R/L-l2-l3-ES**
18	14.00	25	987	987	2,000	**DST-LS-18X80-R/L-l2-l3-ES**
18	13.55	25	987	987	2,000	**DST-LS-18X100-R/L-l2-l3-ES**

Highly efficient at all speeds: iglidur® J

Thread	Efficiency η	Coefficient of friction μ
Ds4x2.4	41–64	0.1–0.25
Ds5x5	52–74	0.1–0.25
Ds6.35x2.54	33–55	0.1–0.25
Ds6.35x5.08	47–70	0.1–0.25
Ds6.35x12.7	60–81	0.1–0.25
Ds6.35x25.4	57–81	0.1–0.25
Ds8x10	55–77	0.1–0.25
Ds8x15	60–81	0.1–0.25
Ds8x24	60–82	0.1–0.25
Ds10x3	27–48	0.1–0.25
Ds10x12	55–76	0.1–0.25
Ds10x25	61–82	0.1–0.25
Ds10x50	52–79	0.1–0.25
Ds12x5	34–56	0.1–0.25
Ds12.7x12.7	52–74	0.1–0.25
Ds12x15	55–77	0.1–0.25
Ds12x25	61–81	0.1–0.25
Ds14x25	60–80	0.1–0.25
Ds14x30	61–81	0.1–0.25
Ds14x40.6	61–82	0.1–0.25
Ds16x35	61–81	0.1–0.25
Ds18x24	56–77	0.1–0.25
Ds18x40	61–81	0.1–0.25
Ds18x80	55–80	0.1–0.25
Ds18x100	49–78	0.1–0.25
Ds20x20	52–74	0.1–0.25
Ds20x50	61–82	0.1–0.25
Ds20x60	60–82	0.1–0.25
Ds20x80	57–81	0.1–0.25
Ds20x90	55–80	0.1–0.25

For temperatures up to +150°C: iglidur® J350

Efficiency η	Coefficient of friction μ
41–51	0.17–0.25
52–62	0.17–0.25
33–42	0.17–0.25
47–57	0.17–0.25
60–70	0.17–0.25
57–69	0.17–0.25
55–65	0.17–0.25
60–70	0.17–0.25
60–71	0.17–0.25
35–48	0.17–0.25
55–65	0.17–0.25
61–71	0.17–0.25
52–66	0.17–0.25
34–43	0.17–0.25
62–71	0.17–0.25
55–65	0.17–0.25
61–71	0.17–0.25
60–70	0.17–0.25
61–71	0.17–0.25
61–71	0.17–0.25
61–71	0.17–0.25
56–66	0.17–0.25
61–71	0.17–0.25
55–68	0.17–0.25
49–64	0.17–0.25
52–62	0.17–0.25
61–71	0.17–0.25
60–71	0.17–0.25
57–69	0.17–0.25
55–68	0.17–0.25

For medium to high speeds: iglidur® R

Thread	Efficiency η	Coefficient of friction μ
Ds4x2.4	37–47	0.2–0.3
Ds5x5	47–58	0.2–0.3
Ds6.35x2.54	29–38	0.2–0.3
Ds6.35x5.08	42–53	0.2–0.3
Ds6.35x12.7	55–66	0.2–0.3
Ds6.35x25.4	50–64	0.2–0.3
Ds8x10	50–61	0.2–0.3
Ds8x15	55–66	0.2–0.3
Ds8x24	54–67	0.2–0.3
Ds10x3	23–32	0.2–0.3
Ds10x12	50–61	0.2–0.3
Ds10x25	55–67	0.2–0.3
Ds10x50	44–61	0.2–0.3
Ds12x5	29–39	0.2–0.3
Ds12.7x12.7	47–58	0.2–0.3
Ds12x15	50–61	0.2–0.3
Ds12x25	55–67	0.2–0.3
Ds14x25	60–72	0.2–0.3
Ds14x30	61–74	0.2–0.3
Ds14x40.6	55–67	0.2–0.3
Ds16x35	61–74	0.2–0.3
Ds18x24	51–62	0.2–0.3
Ds18x40	61–74	0.2–0.3
Ds18x80	55–71	0.2–0.3
Ds18x100	40–58	0.2–0.3
Ds20x20	52–65	0.2–0.3
Ds20x50	55–67	0.2–0.3
Ds20x60	60–74	0.2–0.3
Ds20x80	50–64	0.2–0.3
Ds20x90	55–71	0.2–0.3

FDA-compliant for the food/ pharmaceutical industry: iglidur® A180

Efficiency η	Coefficient of friction μ
41–54	0.15–0.25
52–65	0.15–0.25
33–45	0.15–0.25
47–61	0.15–0.25
60–73	0.15–0.25
57–72	0.15–0.25
55–68	0.15–0.25
60–73	0.15–0.25
60–74	0.15–0.25
38–48	0.15–0.25
55–68	0.15–0.25
61–74	0.15–0.25
52–70	0.15–0.25
34–46	0.15–0.25
65–74	0.15–0.25
55–68	0.15–0.25
61–73	0.15–0.25
60–72	0.15–0.25
61–74	0.15–0.25
61–74	0.15–0.25
61–74	0.15–0.25
56–69	0.15–0.25
61–74	0.15–0.25
55–71	0.15–0.25
49–68	0.15–0.25
52–65	0.15–0.25
61–74	0.15–0.25
60–74	0.15–0.25
57–72	0.15–0.25
55–71	0.15–0.25

Thread	For high speeds: iglidur® E7 Efficiency η	Coefficient of friction μ	The specialist on hard anodised aluminium: iglidur® J200 Efficiency η	Coefficient of friction μ
Ds6.35x2.54	33–55	0.2–0.3	–	–
Ds6.35x5.08	47–70	0.2–0.3	–	–
Ds6.35x12.7	60–81	0.2–0.3	–	–
Ds6.35x25.4	57–81	0.2–0.3	–	–
Ds8x10	55–77	0.2–0.3	–	–
Ds8x15	60–81	0.2–0.3	–	–
Ds10x3	23–32	0.2–0.3	–	–
Ds10x12	55–76	0.2–0.3	–	–
Ds10x25	61–82	0.2–0.3	–	–
Ds10x50	52–79	0.2–0.3	–	–
Ds12x5	34–56	0.2–0.3	–	–
Ds14x25	60–80	0.2–0.3	–	–
Ds14x30	61–81	0.2–0.3	–	–
Ds16x35	–	–	61–71	0.1–0.25
Ds18x24	–	–	56–77	0.1–0.25
Ds18x40	–	–	61–71	0.1–0.25
Ds18x80	–	–	55–68	0.1–0.25
Ds18x100	–	–	49–64	0.1–0.25
Ds20x20	–	–	52–62	0.1–0.25
Ds20x50	–	–	52–62	0.1–0.25
Ds20x60	–	–	60–71	0.1–0.25
Ds20x80	–	–	57–69	0.1–0.25
Ds20x90	–	–	55–68	0.1–0.25

My sketches

dryspin® technology | Lead screw nuts | Product range

Lead screw nuts, cylindrical (form S)

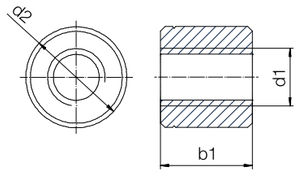
iglidur® J

iglidur® J350

iglidur® R

iglidur® A180

iglidur® E7



Order key

Type										d2	b1	Thread
DST-	□	S	R	M-	14	13	DS	10	X12			
dryspin® technology	iglidur® material	Form S	Hand of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch			

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
E7	For high speeds

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	Max. stat. axial F [N] iglidur® R	Max. stat. axial F [N] iglidur® E7
Ds4x2.4	●	–	60	152	152	–
Ds5x5	●	–	57	152	152	–
Ds6.35x2.54	●	●	172	152	152	86
Ds6.35x5.08	●	–	135	152	152	68
Ds6.35x12.7	●	–	67	152	152	34
Ds6.35x25.4	●	–	74	152	152	24
Ds8x10	●	●	122	304	244	61
Ds8x15	●	●	123	308	244	61
Ds8x24	●	–	104	260	208	–
Ds10x3	●	–	410	1,025	820	–
Ds10x12	●	●	274	685	541	72
Ds10x25	●	●	249	623	499	125
Ds10x50	●	●	144	361	289	137
Ds12x5	●	–	398	995	796	–
Ds12.7x12.7	●	–	462	1,155	924	–
Ds12x15	●	–	712	1,113	891	–
Ds12x25	●	–	385	963	770	–
Ds14x25	●	●	444	1,110	888	–
Ds14x30	●	–	440	1,101	881	–
Ds14x40.6	●	–	434	1,095	868	–
Ds16x35	●	–	610	1,526	1,221	–
Ds18x24	●	●	844	2,110	1,688	–

Dimensions [mm]

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	Weight [g] iglidur® J350	Weight [g] iglidur® R	Weight [g] iglidur® A180	Weight [g] iglidur® E7	Part No.	
4	14	13	2.74	2.65	2.55	2.68	–	DST-□SRM-131315DS4X2.4	
5	14	13	2.4	2.3	2.2	2.3	–	DST-□SRM-1413DS5X5	New
6.35	14	13	2.4	2.3	2.2	2.3	1.67	DST-□S□M-1413DS6.35X2.54	
6.35	14	13	2.4	2.3	2.2	2.3	1.67	DST-□SRM-1413DS6.35X5.08	
6.35	14	13	2.4	2.3	2.2	2.3	1.67	DST-□SRM-1413DS6.35X12.7	
6.35	14	13	2.4	2.3	2.2	2.3	1.67	DST-□SRM-1413DS6.35X25.4	
8	18	12	3.7	3.5	3.4	3.6	2.57	DST-□S□M-1812DS8X10	
8	18	12	3.7	3.5	3.4	3.6	2.57	DST-□S□M-1812DS8X15	
8	18	12	3.7	3.5	3.4	3.6	–	DST-□SRM-1812DS8X24	New
10	22	20	9.0	8.7	8.4	8.8	–	DST-□SRM-2220DS10X3	New
10	22	20	9.0	8.7	8.4	8.8	6.33	DST-□S□M-2220DS10X12	
10	22	20	9.0	8.7	8.4	8.8	6.33	DST-□S□M-2220DS10X25	
10	22	20	9.0	8.7	8.4	8.8	6.33	DST-□S□M-2220DS10X50	
12	26	24	14.9	14.4	13.9	14.6	–	DST-□SRM-2624DS12X5	
12	26	24	14.9	14.4	13.9	14.6	–	DST-□SRM-2624DS12.7X12.7	New
12	26	24	14.9	14.4	13.6	14.6	–	DST-□SRM-2624DS12X15	New
12	26	24	14.9	14.4	13.9	14.6	–	DST-□SRM-2624DS12X25	
14	30	27	22.2	21.5	20.8	21.8	–	DST-□S□M-3027DS14X25	
14	30	27	22.2	21.5	20.8	21.8	–	DST-□SRM-3027DS14X30	
14	30	27	22.2	21.5	20.8	21.8	–	DST-□SRM-3027DS14X40.6	
16	36	32	38.9	37.6	36.3	38.2	–	DST-□SRM-3632DS16X35	
18	40	36	53.8	52.0	50.1	52.7	–	DST-□S□M-4036DS18X24	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	R	E7
Ds18x40	●	●	786	1,966	1,573	–
Ds18x80	●	●	543	1,357	1,086	–
Ds18x100	●	●	476	1,191	953	–
Ds20x20	●	●	984	2,460	1,968	–
Ds20x50	●	–	1007	2,517	2,014	–
Ds20x60	●	●	663	1,657	1,325	–
Ds20x80	●	●	686	1,715	1,372	–
Ds20x90	●	●	610	1,657	1,220	–

Dimensions [mm]

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	J350	R	A180	E7	Part No.
18	40	36	53.8	52.0	50.1	52.7	–	DST-□S□M-4036DS18X40
18	40	36	53.8	52.0	50.1	52.7	–	DST-□S□M-4036DS18X80
18	40	36	53.8	52.0	50.1	52.7	–	DST-□S□M-4036DS18X100
20	45	40	76.1	73.5	71.0	74.5	–	DST-□S□M-4540DS20X20
20	45	40	76.1	73.5	71.0	74.5	–	DST-□SRM-4540DS20X50
20	45	40	76.1	73.5	71.0	74.5	–	DST-□S□M-4540DS20X60
20	45	40	76.1	73.5	71.0	74.5	–	DST-□S□M-4540DS20X80
20	45	40	76.1	73.5	71.0	74.5	–	DST-□S□M-4540DS20X90

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

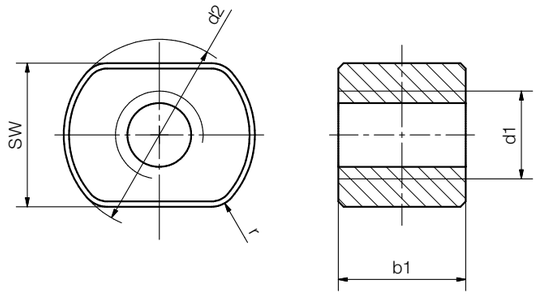
Cylindrical lead screw nuts with spanner flat

iglidur® J

iglidur® J350

iglidur® R

iglidur® A180



Order key

Type	SW	d2	b1	Thread
DST-□ S R M-17	22	20	DS	10X12

dryspin® technology | iglidur® material | Form S | Hand of rotation | Metric | Spanner flat [mm] | Outer Ø [mm] | Length [mm] | Thread type | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective support surface [mm²]	Max. stat. axial F [N] iglidur® J	J350	R	A180
DS10x12	●	●	271	677	677	541	677
DS10x25	●	●	249	623	623	499	623
DS10x50	●	●	144	361	361	289	361
DS12x5	●	–	391	977	977	782	977
DS12x15	●	–	633	990	990	792	990
DS12x25	●	–	385	964	964	771	964
DS14x25	●	●	440	1,101	1,101	881	1,101
DS14x30	●	–	440	1,101	1,101	881	1,101
DS14x40.6	●	–	430	1,075	1,075	860	1,075
DS16x35	●	–	610	1,526	1,526	1,221	1,526
DS18x24	●	●	824	2,061	2,061	1,649	2,061
DS18x40	●	●	786	1,966	1,966	1,573	1,966
DS18x80	●	●	543	1,357	1,357	1,086	1,357
DS18x100	●	●	476	1,191	1,191	953	1,191
DS20x20	●	●	984	2,460	2,460	1,968	2,460
DS10x50	●	●	795	1,988	1,988	1,590	1,988
DS20x50	●	–	663	1,657	1,657	1,325	1,657
DS20x60	●	●	663	1,657	1,657	1,325	1,657
DS20x80	●	●	697	1,742	1,742	1,393	1,742
DS20x90	●	●	663	1,657	1,657	1,325	1,657

Dimensions [mm]

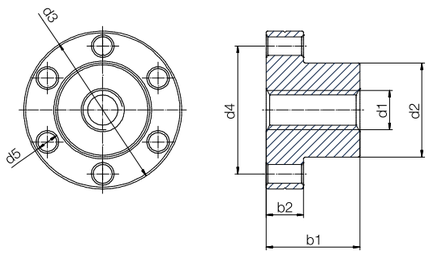
d1[156]	d2[156]	b1[156]	SW	Weight [g] iglidur® J	J350	R	A180	Part No.	
10	22	20	17	6.65	6.42	6.20	6.51	DST-□S□M-172220DS10x12	
10	22	20	17	6.65	6.42	6.20	6.51	DST-□S□M-172220DS10x25	
10	22	20	17	6.65	6.42	6.20	6.51	DST-□S□M-172220DS10x50	
12	26	24	19	10.90	10.53	10.17	10.68	DST-□SRM-192624DS12x5	
12	26	24	19	10.90	10.50	10.20	10.70	DST-□SRM-192624DS12x15	New
12	26	24	19	10.90	10.53	10.17	10.68	DST-□SRM-192624DS12x25	
14	30	27	25	16.05	15.51	14.97	15.73	DST-□S□M-253027DS14x25	
14	30	27	25	16.05	15.51	14.97	15.73	DST-□SRM-253027DS14x30	
14	30	32	25	19.02	18.39	17.75	18.64	DST-□SRM-253027DS14x40.6	
16	36	36	27	33.03	31.92	30.81	32.36	DST-□SRM-273632DS16x35	
18	40	36	27	40.11	38.76	37.41	39.30	DST-□S□M-274036DS18x24	
18	40	36	27	40.11	38.76	37.41	39.30	DST-□S□M-274036DS18x40	
18	40	36	27	40.11	38.76	37.41	39.30	DST-□S□M-274036DS18x80	
18	40	40	27	44.56	43.07	41.57	43.67	DST-□S□M-274036DS18x100	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS20x20	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS10x50	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS20x50	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS20x60	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS20x80	
20	45	40	30	57.34	55.42	53.49	56.19	DST-□S□M-304540DS20x90	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Lead screw nuts with flange (form F)

iglidur® J | iglidur® J350 | iglidur® R | iglidur® A180 | iglidur® J200



Order key

Type										d2	b1	Thread
DST-	□	F	R	M-	25	25	DS	10	X12			

dryspin® technology	iglidur® material	Form F	Hand of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
J200	The specialist on hard anodised aluminium

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	Max. stat. axial F [N] iglidur® R	Max. stat. axial F [N] iglidur® J200
Ds4x2.4	●	–	69	125	125	–
Ds5x5	●	–	66	152	152	–
Ds6.35x2.54	●	●	199	125	125	–
Ds6.35x5.08	●	–	156	125	125	–
Ds6.35x12.7	●	–	78	125	125	–
Ds6.35x25.4	●	–	86	125	125	–
Ds8x10	●	●	203	508	406	–
Ds8x15	●	●	205	635	507	–
Ds8x24	●	–	173	432.5	346	–
Ds10x3	●	●	512	1,280	1,024	–
Ds10x12	●	●	343	845	677	–
Ds10x25	●	●	312	780	623	–
Ds10x50	●	●	181	453	361	–
Ds12x5	●	–	581	1,425	1,140	–
Ds12.7x12.7	●	–	599	1,497.5	1,198	–
Ds12x15	●	–	923	1,443	1,155	–
Ds12x25	●	–	562	1,405	1,124	–
Ds14x25	●	●	576	1,428	1,142	–
Ds14x30	●	–	571	1,428	1,142	–
Ds14x40.6	●	–	434	1,085	868	–
Ds16x35	●	–	668	1,670	1,335	1,336

Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Weight [g] iglidur® J	Weight [g] iglidur® J350	Weight [g] iglidur® R	Weight [g] iglidur® A180	Weight [g] iglidur® J200	Part No.	
4.0	13	25	15	3.2	15	5	7.6	7.35	7.09	7.45	–	DST-□FRM-1315DS4X2.4	
5.0	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS5X5	New
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□F□M-1315DS6.35X2.54	
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X5.08	
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X12.7	
6.35	13	25	19	3.2	15	5	4.9	4.8	4.6	4.8	–	DST-□FRM-1315DS6.35X25.4	
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	–	DST-□F□M-2020DS8X10	
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	–	DST-□F□M-2020DS8X15	
8	20	36	28	4	20	8	12.3	11.9	11.5	12.0	–	DST-□FRM-2020DS8X24	New
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□FRM-2525DS10X3	New
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X12	
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X25	
10	25	42	34	5	25	10	28.7	27.7	26.8	28.1	–	DST-□F□M-2525DS10X50	
12	28	48	38	6	35	12	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X5	
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12.7X12.7	New
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X15	New
12	28	48	38	6	35	18	47.6	46.0	44.4	46.6	–	DST-□FRM-2835DS12X25	
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□F□M-2835DS14X25	
12	28	48	38	6	35	18	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X30	
14	28	48	38	6	35	12	45.4	43.9	42.4	44.5	–	DST-□FRM-2835DS14X40.6	
16	28	48	38	6	35	12	43.0	41.5	40.1	42.1	50	DST-□FRM-2835DS16X35	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Lead screw nuts with flange (form F)

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	R	J200
Ds18x24	●	●	844	2,110	1,688	1,688
Ds18x40	●	●	764	1,910	1,529	1,528
Ds18x80	●	●	528	1,320	1,056	1,056
Ds18x100	●	●	463	1,158	926	926
Ds20x20	●	●	1,083	2,708	2,165	2166
Ds20x50	●	–	729	1,823	1,458	1,750
Ds20x60	●	●	729	1,823	1,458	1,458
Ds20x80	●	●	755	1,888	1,510	1,510
Ds20x90	●	●	671	1,678	1,342	1,342

Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Weight [g] iglidur® J	J350	R	A180	J200	Part No.
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48	**DST-□F□M-2835DS18X24**
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48	**DST-□F□M-2835DS18X40**
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48	**DST-□F□M-2835DS18X80**
18	28	48	38	6	35	12	50.9	49.2	47.4	49.8	48	**DST-□F□M-2835DS18X100**
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73	**DST-□F□M-3244DS20X20**
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73	**DST-□F□M-3244DS20X50**
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73	**DST-□F□M-3244DS20X60**
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73	**DST-□F□M-3244DS20X80**
20	32	55	45	7	44	12	60.2	58.2	56.2	59.0	73	**DST-□F□M-3244DS20X90**

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

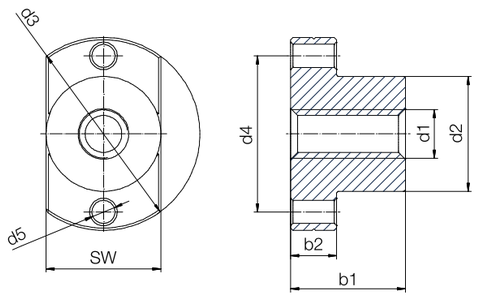
Lead screw nuts with spanner flat, with flange

iglidur® J

iglidur® J350

iglidur® R

iglidur® A180



Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	Max. stat. axial F [N] iglidur® R
Ds4x2.4	●	–	69	125	125
Ds5x5	●	–	66	152	152
Ds6.35x2.54	●	●	199	125	125
Ds6.35x5.08	●	–	156	125	125
Ds6.35x12.7	●	–	78	125	125
Ds6.35x25.4	●	–	114	125	125
Ds8x10	●	●	203	507	406
Ds8x15	●	●	205	513	410
Ds8x24	●	●	173	432.5	346
Ds10x12	●	●	343	858	686
Ds10x25	●	●	312	779	623
Ds10x50	●	●	253	632	506
Ds12x5	●	–	581	1,452	1,162
Ds12x15	●	–	923	1,443	1,155
Ds12x25	●	–	562	1,405	1,124
Ds14x25	●	●	576	1,440	1,152
Ds14x30	●	–	571	1,427	1,142
Ds14x40.6	●	–	562	1,405	1,124
Ds16x35	●	–	668	1,669	1,335
Ds18x24	●	●	821	2,053	1,643
Ds18x40	●	●	764	1,911	1,529

Order key

Type										SW	d2	b1	Thread
DST-	□	F	R	M-	25	25	25	DS	10X12				
dryspin® technology	iglidur® material	Form F	Hand of rotation	Metric	Spanner flat [mm]	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch			

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	SW	Weight [g] iglidur® J	Weight [g] iglidur® J350	Weight [g] iglidur® R	Weight [g] iglidur® A180	Part No.
4.0	13	25	19	3.2	15	5	13	4.1	3.98	3.84	4.04	DST-□FRM-131315DS4X2.4
5.0	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6	DST-□FRM-131315DS5X5
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6	DST-□F□M-131315DS6.35X2.54
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6	DST-□FRM-131315DS6.35X5.08
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6	DST-□FRM-131315DS6.35X12.7
6.35	13	25	19	3.2	15	5	13	3.7	3.6	3.4	3.6	DST-□FRM-131315DS6.35X25.4
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4	DST-□F□M-202020DS8X10
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4	DST-□F□M-202020DS8X15
8	20	36	28	4	20	8	20	12.7	12.3	11.8	12.4	DST-□F□M-202020DS8X24
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2	DST-□F□M-252525DS10X12
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2	DST-□F□M-252525DS10X25
10	25	42	34	5	25	10	25	23.7	22.9	22.1	23.2	DST-□F□M-252525DS10X50
12	28	48	38	6	35	12	28	39.2	37.9	36.6	38.4	DST-□FRM-282835DS12X5
12	28	48	38	6	35	18	28	39.2	37.9	36.6	38.4	DST-□FRM-282835DS12X15
12	28	48	38	6	35	12	28	39.2	37.9	36.6	38.4	DST-□FRM-282835DS12X25
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4	DST-□F□M-282835DS14X25
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4	DST-□FRM-282835DS14X30
14	28	48	38	6	35	12	28	37.1	35.9	34.6	36.4	DST-□FRM-282835DS14X40.6
16	28	48	38	6	35	12	28	34.6	33.5	32.3	33.9	DST-□FRM-282835DS16X35
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2	DST-□F□M-282835DS18X24
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2	DST-□F□M-282835DS18X40

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Lead screw nuts with spanner flat, with flange

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J / J350 / A180	Max. stat. axial F [N] iglidur® R
Ds18x80	●	●	528	1,319	1,056
Ds18x100	●	●	463	1,158	926
Ds20x20	●	●	1,083	2,707	2,165
Ds20x50	●	–	729	1,822	1,458
Ds20x60	●	●	729	1,822	1,458
Ds20x80	●	●	755	1,888	1,510
Ds20x90	●	●	671	1,678	1,342

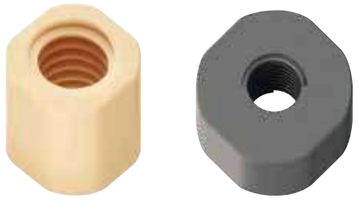
Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	SW	Weight [g] iglidur® J	J350	R	A180	Part No.
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2	DST-□F□M-282835DS18X80
18	28	48	38	6	35	12	28	31.9	30.8	29.7	31.2	DST-□F□M-282835DS18X100
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2	DST-□F□M-323244DS20X20
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2	DST-□F□M-323244DS20X50
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2	DST-□F□M-323244DS20X60
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2	DST-□F□M-323244DS20X80
20	32	55	45	7	44	12	32	49.2	47.6	45.9	48.2	DST-□F□M-323244DS20X90

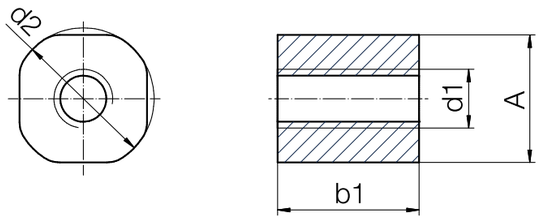
[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts, cylindrical (form S)



Images exemplary



Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N]
Ds4x2.4	●	–	53	152
Ds5x5	●	–	53	152
Ds6.35x2.54	●	●	159	152
Ds6.35x5.08	●	–	125	152
Ds6.35x12.7	●	–	62	152
Ds6.35x25.4	●	–	69	152
Ds8x10	●	●	203	507
Ds8x15	●	●	203	507
Ds8x24	●	–	173	432.5
Ds10x3	●	–	410	1,025
Ds10x12	●	●	271	677
Ds10x25	●	●	249	623
Ds10x50	●	●	144	361
Ds12x5	●	–	407	1,018
Ds12.7x12.7	●	–	427	1,067.5
Ds12x15	●	–	659	1,031
Ds12x25	●	–	291	1,018
Ds14x25	●	●	408	1,019
Ds14x30	●	–	408	1,019
Ds16x35	●	–	477	1,192
Ds18x24	●	●	573	1,431
Ds18x40	●	●	546	1,365

Order key

Type | d2 | b1 | Thread

DST - J S □ M - C - 01-DS 10X12

dryspin® technology | iglidur® material | Form S | Hand of rotation | Metric | Thread: cut | Type | Thread type | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
E7	For high speeds

Dimensions [mm]

d1[156]	d2[156]	A	b1[156]	Weight [g]	Part No.	
4	12	11	12	1.46	DST-JSRM-C-01-DS4X2.4	New
5	12	11	12	1.46	DST-JSRM-C-01-DS5X5	New
6.35	12	11	12	1.46	DST-JS□M-C-01-DS6.35X2.54	
6.35	12	11	12	1.46	DST-JSRM-C-01-DS6.35X5.08	
6.35	12	11	12	1.46	DST-JSRM-C-01-DS6.35X12.7	
6.35	12	11	12	1.46	DST-JSRM-C-01-DS6.35X25.4	
8	20	18	20	7.86	DST-JS□M-C-01-DS8X10	
8	20	19	20	7.86	DST-JS□M-C-01-DS8X15	
8	20	18	20	7.90	DST-JSRM-C-01-DS8X24	New
10	20	18	20	7.02	DST-JSRM-C-01-DS10X3	New
10	20	18	20	7.02	DST-JS□M-C-01-DS10X12	
10	20	18	20	7.02	DST-JS□M-C-01-DS10X25	
10	20	18	20	7.02	DST-JS□M-C-01-DS10X50	
12	24	22.6	25	12.64	DST-JSRM-C-01-DS12X5	
12	24	22.6	25	12.64	DST-JSRM-C-01-DS12.7X12.7	New
12	24	22.6	25	12.60	DST-JSRM-C-01-DS12X15	New
12	26	22.6	25	12.64	DST-JSRM-C-01-DS12X25	
14	24	22.6	25	11.12	DST-JS□M-C-01-DS14X25	
14	24	22.6	25	11.12	DST-JSRM-C-01-DS14X30	
16	28	26.2	25	15.45	DST-JSRM-C-01-DS16X35	
18	28	26.2	25	13.46	DST-JS□M-C-01-DS18X24	
18	28	26.2	25	13.46	DST-JS□M-C-01-DS18X40	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts, cylindrical (form S)

dryspin® technology

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N]
Ds6.35x2.54	●	●	159	79.5
Ds6.35x5.08	●	–	125	62.5
Ds6.35x12.7	●	–	62	31.0
Ds6.35x25.4	●	–	69	34.5
Ds8x10	●	–	203	101.5
Ds8x15	●	–	203	101.5
Ds10x12	●	–	217	108.5
Ds10x25	●	–	249	124.5
Ds10x50	●	–	144	72.0
Ds12x5	●	–	407	203.5
Ds12x25	●	–	291	145.5
Ds14x25	●	–	408	204.0
Ds14x30	●	–	408	204.0

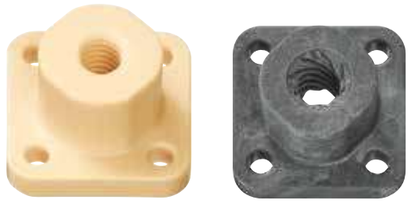
Dimensions [mm]

d1[156]	d2[156]	A	b1[156]	Weight [g]	Part No.	
6.35	12	11	12	1.20	DST-E7S□M-C-01-DS6.35X2.54	New
6.35	12	11	12	1.20	DST-E7SRM-C-01-DS6.35X5.08	New
6.35	12	11	12	1.20	DST-E7SRM-C-01-DS6.35X12.7	New
6.35	12	11	12	1.20	DST-E7SRM-C-01-DS6.35X25.4	New
8	20	18	20	5.00	DST-E7SRM-C-01-DS8X10	New
8	20	18	20	5.00	DST-E7SRM-C-01-DS8X15	New
10	20	18	20	5.00	DST-E7SRM-C-01-DS10X12	New
10	20	18	20	5.00	DST-E7SRM-C-01-DS10X25	New
10	20	18	20	5.00	DST-E7SRM-C-01-DS10X50	New
12	24	22.6	25	9.80	DST-E7SRM-C-01-DS12X5	New
12	26	22.6	25	9.80	DST-E7SRM-C-01-DS12X25	New
14	24	22.6	25	9.80	DST-E7SRM-C-01-DS14X25	New
14	24	22.6	25	9.80	DST-E7SRM-C-01-DS14X30	New

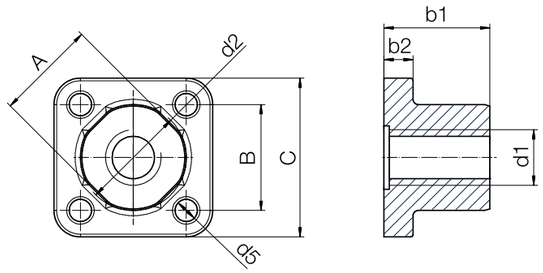
[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts with flange (form F)



Images exemplary



Order key

Type									d2	b1	Thread
DST-	J	F	□	M-	C	-	01-	DS	10X12		

dryspin® technology	igliduR® material	Form F	Hand of rotation	Metric	Thread: cut	Type	Thread type	Diameter [mm]	Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
E7	For high speeds

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N]
Ds5x5	●	–	53	152
Ds6.35x2.54	●	●	199	125
Ds6.35x5.08	●	–	156	125
Ds6.35x12.7	●	–	78	125
Ds6.35x25.4	●	–	86	125
Ds8x10	●	●	203	507
Ds8x15	●	●	254	634
Ds8x24	●	–	173	432.5
Ds10x3	●	–	410	1,025
Ds10x12	●	●	338	846
Ds10x25	●	●	312	779
Ds10x50	●	●	181	451
Ds12x5	●	–	570	1,425
Ds12.7x12.7	●	–	427	1,067.5
Ds12x15	●	–	659	1,031
Ds12x25	●	–	548	1,425
Ds14x25	●	●	571	1,427
Ds14x30	●	–	571	1,427
Ds16x35	●	–	668	1,669
Ds18x24	●	●	802	2,004
Ds18x40	●	●	764	1,911

Dimensions [mm]

d1[156]	d2[156]	A	B	C	d5	b1[156]	b2	Weight [g]	Part No.	
5.0	14	11	12	18	3.2	12	4	2.71	DST-JFRM-C-01-DS5X5	New
6.35	12	11	12	18	3.2	12	4	2.71	DST-JF□M-C-01-DS6.35X2.54	
6.35	12	11	12	18	3.2	12	4	2.71	DST-JFRM-C-01-DS6.35X5.08	
6.35	12	11	12	18	3.2	12	4	2.71	DST-JFRM-C-01-DS6.35X12.7	
6.35	12	11	12	18	3.2	12	4	2.71	DST-JFRM-C-01-DS6.35X25.4	
8	20	19	20	30	4.2	20	5.5	12.66	DST-JF□M-C-01-DS8X10	
8	20	19	20	30	4.2	20	5.5	12.66	DST-JF□M-C-01-DS8X15	
8	20	19	20	30	4.2	20	5.5	12.60	DST-JFRM-C-01-DS8X24	New
10	20	19	20	30	4.2	20	5.5	11.82	DST-JFRM-C-01-DS10X3	New
10	20	19	20	30	4.2	20	5.5	11.82	DST-JF□M-C-01-DS10X12	
10	20	19	20	30	4.2	20	5.5	11.82	DST-JF□M-C-01-DS10X25	
10	20	19	20	30	4.2	20	5.5	11.82	DST-JF□M-C-01-DS10X50	
12	24	22.6	24	34	5	25	6	18.93	DST-JFRM-C-01-DS12X5	
12	24	22.6	24	34	5	25	6	18.93	DST-JFRM-C-01-DS12.7X12.7	New
12	24	22.6	24	34	5	25	6	19.00	DST-JFRM-C-01-DS12X15	New
12	24	22.6	24	34	5	25	6	18.93	DST-JFRM-C-01-DS12X25	
14	24	22.6	24	34	5	25	6	17.41	DST-JF□M-C-01-DS14X25	
14	24	22.6	24	34	5	25	6	17.41	DST-JFRM-C-01-DS14X30	
16	28	25.5	27	38	6	25	6.5	22.85	DST-JFRM-C-01-DS16X35	
18	28	25.5	27	38	6	25	6.5	21.48	DST-JF□M-C-01-DS18X24	
18	28	25.5	27	38	6	25	6.5	21.48	DST-JF□M-C-01-DS18X40	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts, cylindrical (form S)

dryspin® technology

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N]
Ds6.35x2.54	●	●	199	80
Ds6.35x5.08	●	–	156	63
Ds6.35x12.7	●	–	78	31
Ds6.35x25.4	●	–	86	35
Ds8x10	●	●	203	102
Ds8x15	●	●	254	102
Ds10x12	●	●	338	136
Ds10x25	●	●	312	125
Ds10x50	●	●	181	72

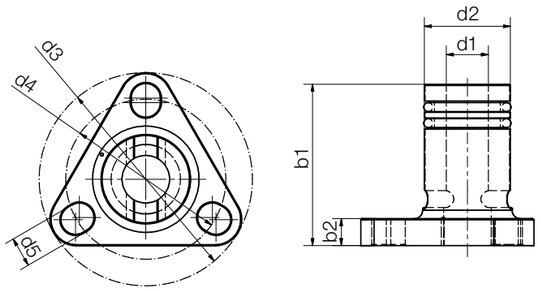
Dimensions [mm]

d1[156]	d2[156]	A	B	C	d5	b1[156]	b2	Weight [g]	Part No.
6.35	12	11	12	18	3.2	12	4	1.9	DST-E7F□M-C-01-DS6.35X2.54
6.35	12	11	12	18	3.2	12	4	1.9	DST-E7FRM-C-01-DS6.35X5.08
6.35	12	11	12	18	3.2	12	4	1.9	DST-E7FRM-C-01-DS6.35X12.7
6.35	12	11	12	18	3.2	12	4	1.9	DST-E7FRM-C-01-DS6.35X25.4
8	20	19	20	30	4.2	20	5.5	9.0	DST-E7F□M-C-01-DS8X10
8	20	19	20	30	4.2	20	5.5	9.0	DST-E7F□M-C-01-DS8X15
10	20	19	20	30	4.2	20	5.5	9.0	DST-E7F□M-C-01-DS10X12
10	20	19	20	30	4.2	20	5.5	9.0	DST-E7F□M-C-01-DS10X25
10	20	19	20	30	4.2	20	5.5	9.0	DST-E7F□M-C-01-DS10X50

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Lead screw nuts with radial pre-load



Order key

Part number						Type	Thread		
DST-	J	F	R	M-	LC-	0001-	DS	10X	12
dryspin® technology	iglidur® J	Form F	Hand of rotation	Metric	Low Clearance	Type 0001	Thread type	Thread Ø [mm]	Pitch

Technical data

Thread	Max. stat. axial F [N]	Max. idling torque (with O-ring) from [Nm]	Weight [g]
Ds6.35x2.54	40	0.005	3.8
Ds6.35x5.08	40	0.005	3.8
Ds6.35x12.7	40	0.005	3.8
Ds6.35x25.4	40	0.005	3.8
Ds8x10	75	0.01	12.1
Ds8x15	75	0.01	12.1
Ds10x12	75	0.01	12.1
Ds10x25	75	0.01	12.1
Ds10x50	75	0.01	12.1
Ds12x5	125	0.03	18.0
Ds12x25	125	0.03	18.0
Ds14x25	125	0.03	18.0
Ds14x30	125	0.03	18.0
Ds14x40.6	125	0.03	18.0

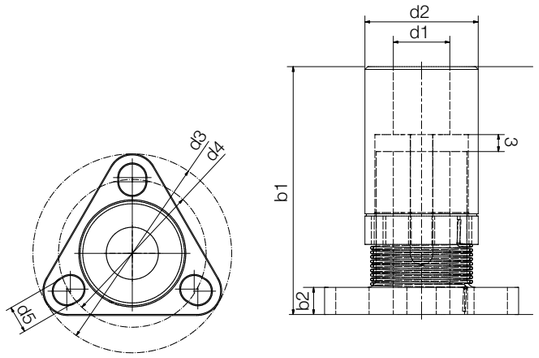
Dimensions [mm]

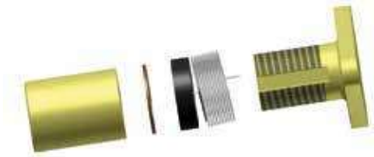
d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Part No.
6.35	10	285	22.2	3.7	25.0	4.1	**DST-JFRM-LC-0001-DS6.35X2.54**
6.35	10	285	22.2	3.7	25.0	4.1	**DST-JFRM-LC-0001-DS6.35X5.08**
6.35	10	285	22.2	3.7	25.0	4.1	**DST-JFRM-LC-0001-DS6.35X12.7**
6.35	10	285	22.2	3.7	25.0	4.1	**DST-JFRM-LC-0001-DS6.35X25.4**
8	16	38.1	28.3	5.2	28.8	4.8	**DST-JFRM-LC-0001-DS8X10**
8	16	38.1	28.3	5.2	28.8	4.8	**DST-JFRM-LC-0001-DS8X15**
10	16	38.1	28.3	5.2	28.3	4.8	**DST-JFRM-LC-0001-DS10X12**
10	16	38.1	28.3	5.2	28.3	4.8	**DST-JFRM-LC-0001-DS10X25**
10	16	38.1	28.3	5.2	28.3	4.8	**DST-JFRM-LC-0001-DS10X50**
12	20	41.1	31.8	5.2	44.0	7.0	**DST-JFRM-LC-0001-DS12X5**
12	20	41.1	31.8	5.2	44.0	7.0	**DST-JFRM-LC-0001-DS12X25**
14	20	41.1	31.8	5.2	44.0	7.0	**DST-JFRM-LC-0001-DS14X25**
14	20	41.1	31.8	5.2	44.0	7.0	**DST-JFRM-LC-0001-DS14X30**
14	20	41.1	31.8	5.2	44.0	7.0	**DST-JFRM-LC-0001-DS14X40.6**

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Lead screw nuts | Product range

Zero-backlash option





Installation instructions and video tutorials
▶ www.igus-asean.com/zero-backlash-nut

Order key

Part number						Type	Thread		
DST-	J	F	R	M-	ZB-	0001-	DS	10X12	
dryspin® technology	iglidur® J	Form F	Hand of rotation	Metric	Zero-backlash	Type 0001	Thread type	Thread Ø [mm]	Pitch

Technical data

Thread	Max. stat. axial F [N]	Max. idling torque (with spring)[170] from [Nm]	Weight [g]
Ds5x5	75	0.02	5.1
Ds6.35x2.54	75	0.02	5.1
Ds6.35x5.08	75	0.02	5.1
Ds6.35x12.7	75	0.02	5.1
Ds6.35x25.4	75	0.02	5.1
Ds8x10	150	0.03	15.2
Ds8x15	150	0.03	15.2
Ds8x24	150	0.03	15.2
Ds10x12	150	0.04	15.2
Ds10x25	150	0.04	15.2
Ds10x50	150	0.04	15.2

[170] The idling torque of the zero-backlash lead screw nut increases with service life. When calculating the dimensions, it is recommended that the maximum idling torque be taken into account.

Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[40] [156]	b2	Part No.	
5	13.5	28	22.2	3.7	31 – 36	4.1	DST-JFRM-ZB-0001-DS5X5	New
6.35	13.5	28	22.2	3.7	31 – 36	4.1	DST-JFRM-ZB-0001-DS6.35X2.54	
6.35	13.5	28	22.2	3.7	31 – 36	4.1	DST-JFRM-ZB-0001-DS6.35X5.08	
6.35	13.5	28	22.2	3.7	31 – 36	4.1	DST-JFRM-ZB-0001-DS6.35X12.7	
6.35	13.5	28	22.2	3.7	31 – 36	4.1	DST-JFRM-ZB-0001-DS6.35X25.4	
8	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS8X10	
8	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS8X15	
8	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS8X24	New
10	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS10X12	
10	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS10X25	
10	20	38.1	28.3	5.2	41 – 47	4.8	DST-JFRM-ZB-0001-DS10X50	

[40] Variable according to thread pitch / clearance

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

dryspin® technology | Product range

Accessories for dryspin® technology

igus® offers a large modular kit for dryspin® lead screw drives. Bearing housing for lead screws and lead screw nuts enable the design of a custom linear system. With drylin® E lead screw motors, dryspin® combines the highest precision with a longer service life.

Lead screw nut housings

- Universal support for dryspin® lead screw nut with flange
- Material: anodised aluminium
- Available individually or completely pre-assembled

▶ Page 1340

Lead screw support blocks

- Lead screw support block including clamping rings and lubrication-free plain bearings
- Material: anodised aluminium
- Fixed and floating bearing version available

▶ Page 1342

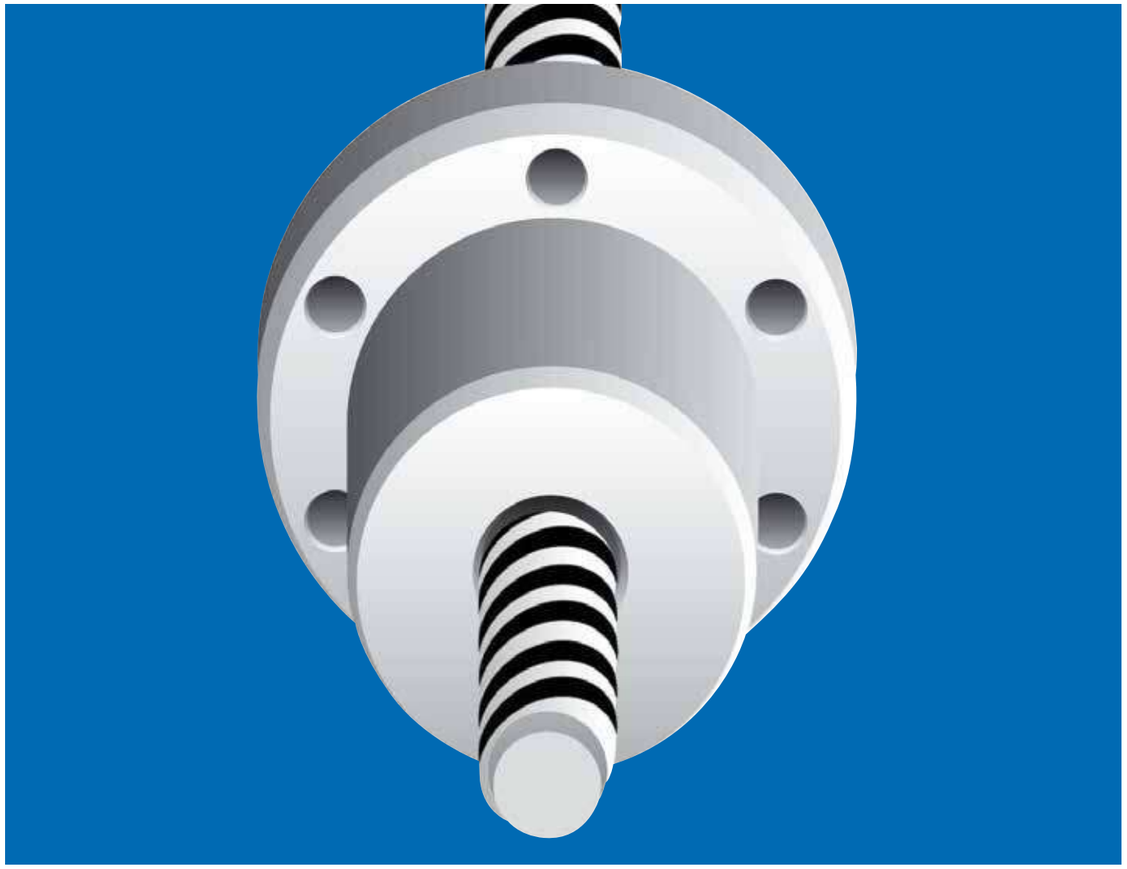
drylin® E lead screw motor with dryspin® technology

- NEMA 11/17/23 stepper motors
- Direct centring of the dryspin® lead screw for highest precision
- Many combination options

▶ Page 1447

Special components

- Special machined lead screw which can be configured online
- Custom machining nuts/lead screw upon request



drylin® lead screw technology – Trapezoidal and metric threads

Self-locking

Maintenance-free dry operation

Resistant to dirt and long service life

Lead screw nuts made from lubrication-free dry-tech® polymers

Lead screws made from steel, stainless steel or aluminium

Radial loads

drylin® lead screw nuts are designed to absorb axial forces. Any radial forces that may occur in the application should be absorbed by additional linear guides. ▶ **drylin® linear technology, from page 941**

Temperature

drylin® lead screw nuts, which are manufactured from maintenance-free iglidur® materials, are suited for use in temperatures ranging from –20°C to +90°C (+150°C, depending on material). Please note that the temperature also has an effect on the clearance of the nut, as well as the maximum load capacity. When the application is exposed to temperature and load extremes, we recommend testing the suitability of the lead screw nuts in this specific case by a practical test. In order to provide for the use in all temperature ranges, we have lead screw nuts available in various clearance classes.

Wet environments

Trapezoidal lead screw nuts made from iglidur® J or iglidur® A180 must be used for applications in humid environments, especially for wet applications. These material are characterised by very low moisture absorption. ▶ **iglidur®J, page 159 and ▶ iglidur® A180, page 401**

Dirt

With the use of the maintenance-free iglidur® materials for lead screw nut production, drylin® lead screw drives feature completely dry operation operation. Due to the deliberate avoidance of lubricants, the adhesion of soft particles such as dust and fibres is reduced. When compared to conventional, lubricated materials, it is common to see significant improvements in the service life in contaminated environments. However, in environments with significant contamination and hard particles, such as metal swarf or granite dust, the lead screw should be covered.

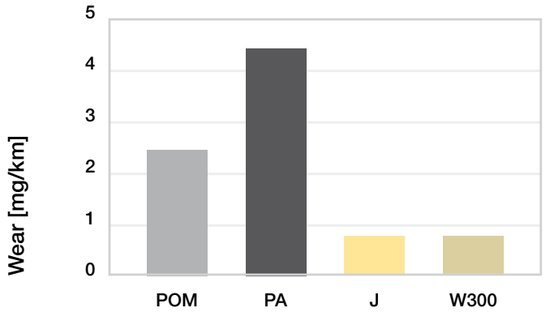


Diagram 01: Wear test on a rolled trapezoidal lead screw

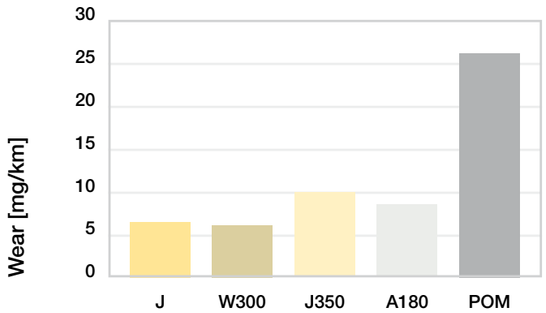


Diagram 02: Wear test on a C15 lead screw
Stroke 140mm, 50N, lead screw C15 rolled, 450rpm

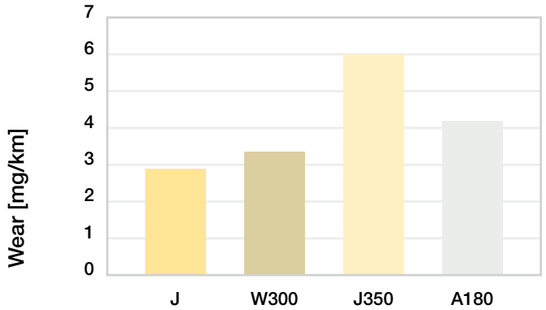


Diagram 03: Wear test on a VA lead screw
Stroke 140mm, 50N, lead screw VA rolled, 450rpm

Lead screw drive inspection

drylin® lead screw drives are manufactured in accordance with DIN 103. Inspection is performed with standard thread plug gauges after production. The DIN 103 standard is converted to the corresponding size for any thread sizes that are not shown in the standard table. The hygroscopic and thermal properties of the material must be taken into account during selection. Dimensional changes can occur as a result of moisture and/or thermal exposure at the point of use. For these reasons, general DIN compatibility cannot be guaranteed.

Noise

Noise can generally occur with the use of lead screw drives. In particular, long lead screws and long travel distances can cause self-induced vibrations in the systems.
Due to their good sliding properties, lead screw nuts made from the tribologically optimised iglidur® materials tend to develop less noise than conventional plastics or metallic materials, such as bronze or brass. If your lead screw drive develops noise, please contact us to discuss this with our experts.
▶ **Anti-backlash lead screw nut, page 1324**

Clearance

The reliable operation of lead screw drives requires a basic amount of clearance. Application-specific parameters must be observed in addition to the lead screw drive clearance caused by manufacturing tolerances. In addition to thermal and hygroscopic environmental influences, the minimum clearance to be accounted for in the application must also take into account the friction heat generated by the application. The use of lead screw drives is therefore not recommended for precision drives without conducting practical tests. In practice, pre-load has proven to be an effective counter-measure for undesirable clearance. In addition to the solutions from our standard product range, our technical support team will be pleased to discuss other options.

Levels of efficiency

Efficiency is the ratio between the output and input power rating. drylin® lead screw nuts are characterised by a low coefficient of friction, resulting in high efficiencies.
Single start trapezoidal lead screw nuts achieve efficiencies between 20 and 48% in dry operation.
High helix lead screw nuts achieve efficiencies between 50 and 80% in dry operation.
Even though drylin® lead screw nuts were developed for completely dry operation, lubrication can help to additionally increase efficiency.

Self-locking

Single start trapezoidal lead screw drives are self-locking. This means that the flank angle and the sliding friction prevent movement of the nut or the lead screw without the application of outside forces. As soon as the static friction is exceeded, the components are no longer self-locking. Multi start trapezoidal screw systems have a "residual self-locking" feature; high helix screw drives have no self-locking feature.

Anti-backlash lead screw nuts

Backlash is the phenomenon created on the lead screw drives by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.

Anti-backlash lead screw nuts in a glue application system of a seam gluing machine (wood industry). These ensure the utmost precision for this clearance-free adjustment drive.

Format adjustment in the paper industry with anti-backlash lead screw nut

Zero-backlash lead screw nuts

Lead screw drives with high helix thread for quick adjustments of small loads. The zero-backlash principle provides for minimal backlash for the life of the product. Ideal for precise positioning and feed movements in medical, laboratory and printing systems and other life science fields.
High helix lead screw nuts without zero-backlash feature or trapezoidal threads should be used for high loads, dirt accumulation or extreme external influences.

Installation of lead screw nuts

drylin® lead screw nuts must be secured against twisting and sag.

Lead screw nuts with flange

The maximum tightening torque for the assembly of lead screw nuts with flange is 2.5Nm. We recommend that assembly screws are secured with a semi-permanent thread locking glue. Metallic ferrules should be used for even higher tightening torques.

Cylindrical lead screw nuts

The outer diameter of cylindrical lead screw nuts is not designed for a press fit. We therefore recommend the use of spanner flats. In practice, a screw mount has proven to be effective with low forces. Gluing lead screws nuts is not recommended. If however, the securing of the lead screw nuts by adhesives is planned, individual tests are necessary in each case.

Lead screw selection

The suitability and the operating behaviour of the system largely depend on the lead screws used with the nut. We recommend purchasing the nut and lead screw as a system from a single source. Lead screws are inspected with DIN 103-compliant gauges. In principle, drylin® lead screw drives can be used with lead screws made from steel, stainless steel or hard-anodised aluminium. "Split" lead screws (right and left-handed threads on one lead screw) are available in addition to right-hand and left-hand versions.

Custom lead screws

Take advantage of our machining service - we manufacture ready-to-fit lead screws based on your requirements. Please send us your drawing. We can then provide a quotation quickly.

Custom lead screw example

Custom nuts

Take advantage of our machining service – we manufacture ready-to-fit lead screw nuts based on your requirements. Please send us your drawing. We can then provide a quotation quickly.

Custom nut examples

Material selection

drylin® lead screw nuts are supplied in 7 standard materials:

High efficiency at all speeds:
iglidur® J ▶ Page 159
- High speed
- Low wear
- Best coefficient of friction

For heavy duty applications up to 5MPa:
iglidur® W300 ▶ Page 171
- High static strength

For temperatures up to +150°C:
iglidur® J350 ▶ Page 199
- For high temperatures
- Good coefficient of friction with medium loads

For medium to high speeds:
iglidur® R ▶ Page 247
- High wear resistance for low loads
- Low moisture absorption
- Vibration-dampening

FDA-compliant for the food and pharmaceutical industry:
iglidur® A180 ▶ Page 401
- FDA-compliant
- For contact with food

Best running partner for hard anodised aluminium:
iglidur® J200 ▶ Page 261
- Low coefficient of friction and wear
- Long service life

For high speeds:
iglidur® E7 ▶ Page 267
- Low loads up to 200N
- Speeds up to 1,200rpm

drylin® TR | Trapezoidal thread | Technical data

Service life

drylin® lead screw nuts are made from tribologically optimised materials. Already during the development phase, the focus is on optimising the friction properties of the drylin® lead screw drives, with the objective of attaining the lowest possible coefficient of wear and friction. In order to make the most precise statements about service life and wear resistance, several hundred tests are conducted each year on the test equipment at the igus® test lab in Cologne. Our experts will gladly test your application as well.

iglidur® material	Max. surface pressure [MPa]
iglidur® J	4.0
iglidur® W300	5.0
iglidur® J350	3.0
iglidur® R	2.0
iglidur® A180	3.5
iglidur® E7	0.5
iglidur® J200	2.0

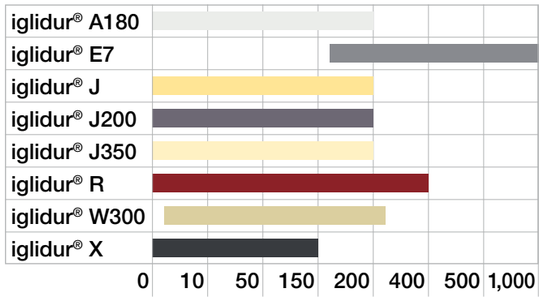
Table 01: Permitted continuous surface pressure in the threads

Tightening torque for drylin® connections between metal parts

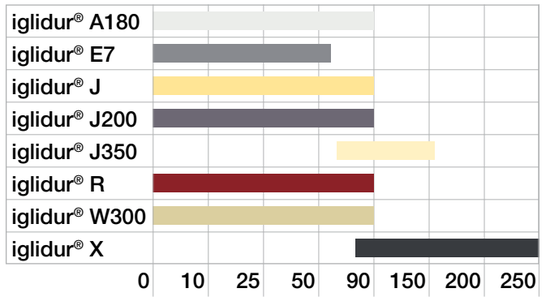
Metric thread (Da)	Tightening torque [Nm]	Recommended tightening torque [Nm]
M3	0.5–1.1	0.7
M4	1.0–2.8	1.5
M5	2.0–5.5	3.0
M6	4.0–10.0	6.0
M8	8.0–23.0	15.0
M10	22.0–46.0	30.0

Please be aware of the minimal screw-in depth for aluminium and zinc parts: 1.5xDa

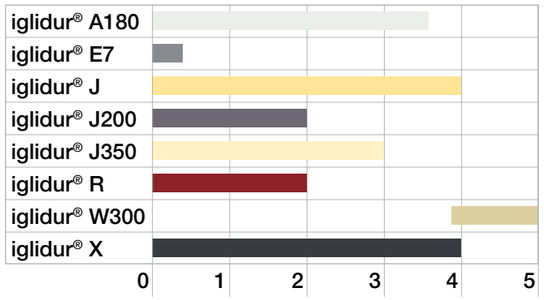
Correct choice of material



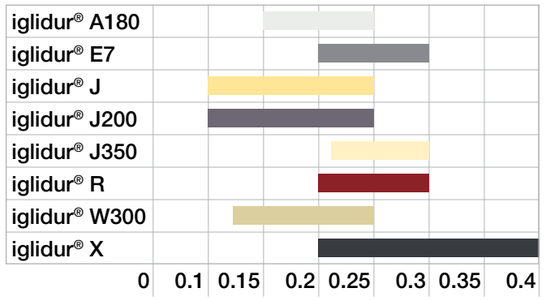
Speed [rpm]



Temperature [°C]



Surface pressure in thread [MPa]



Coefficient of friction [µ]

iglidur® X not available in combination with dryspin® high helix thread, iglidur® J200 only available in combination with aluminium

Required drive torque

The required drive torque of the lead screw nut is obtained from the axial load, the lead screw pitch, the coefficient of surface friction of the lead screw drive and the lead screw support. At high speeds, the acceleration torque must be taken into account, which may cause increased breakaway torque depending on the installation. Dirt, dust and the surface or the condition of the lead screw can increase the drive torque. However, lubrication can temporarily reduce the required drive forces.

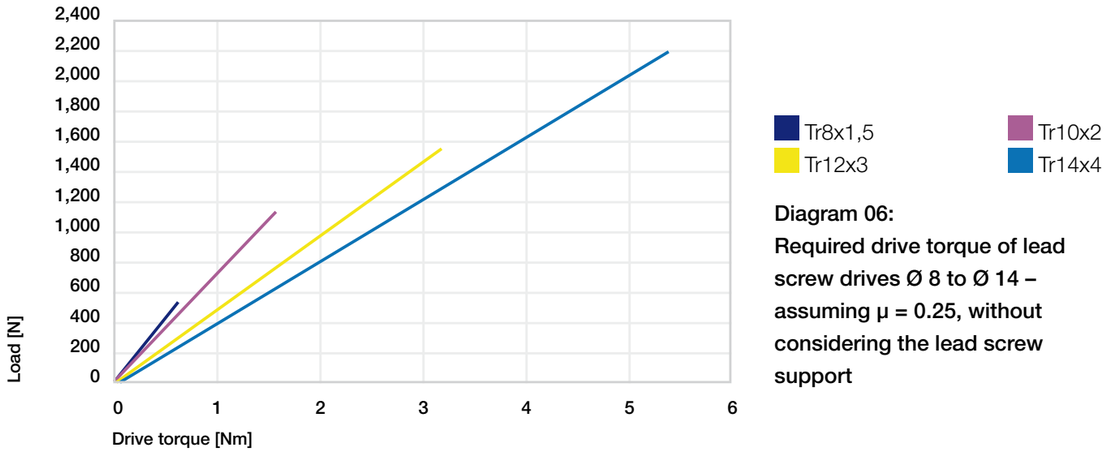


Diagram 06:
Required drive torque of lead screw drives Ø 8 to Ø 14 – assuming μ = 0.25, without considering the lead screw support

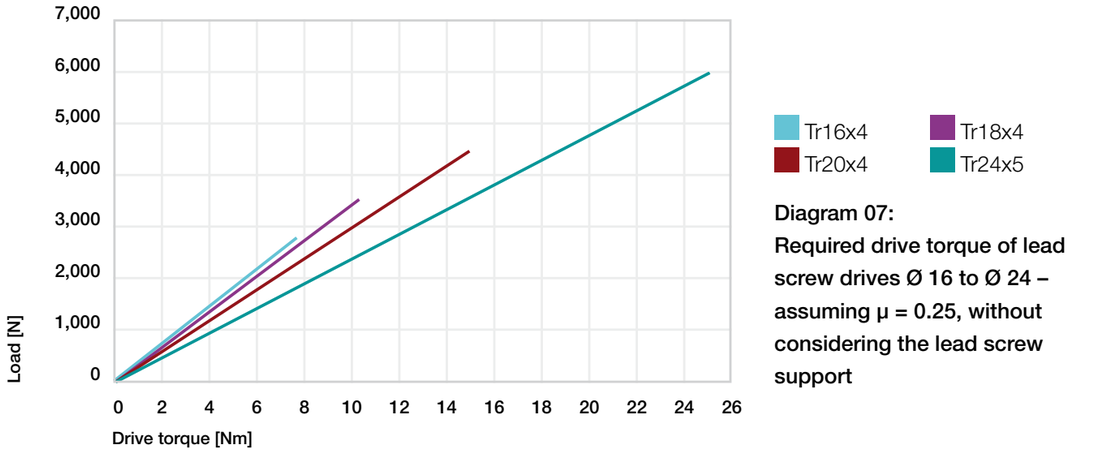


Diagram 07:
Required drive torque of lead screw drives Ø 16 to Ø 24 – assuming μ = 0.25, without considering the lead screw support

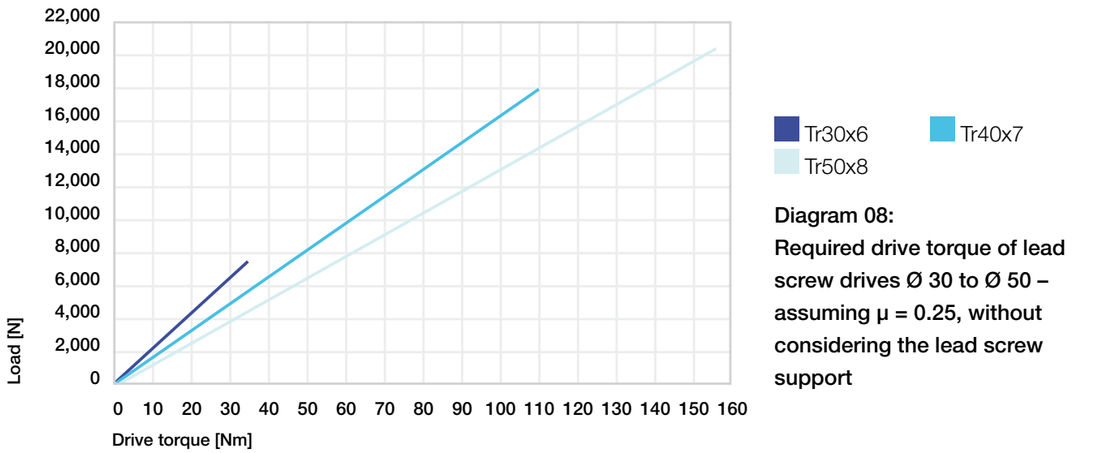


Diagram 08:
Required drive torque of lead screw drives Ø 30 to Ø 50 – assuming μ = 0.25, without considering the lead screw support

drylin® TR | Trapezoidal thread | Technical data

Max. permissible pv value

With the pv value and the effective support surface stated in the dimensions tables, the permissible sliding speed and from it the feed rate for each thread size can be determined.

Operating time (ESD)	pv value$_{max.}$ [MPa · m/s]	(applicable for iglidur® J, W300, A180, R and J350)
100%	0.08	
50%	0.2	
10%	0.4	

Table 03: Standard values when using drylin® plastic nuts without lubrication (with 500mm stroke). A correction factor must be reckoned for very short or long strokes.

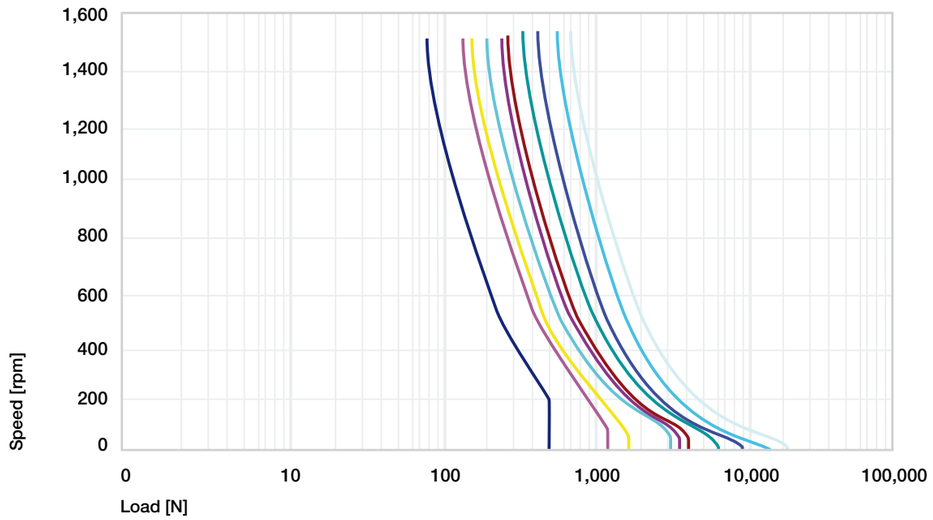


Diagram 09: Maximum dynamic load for lead screw drives with 10% ESD

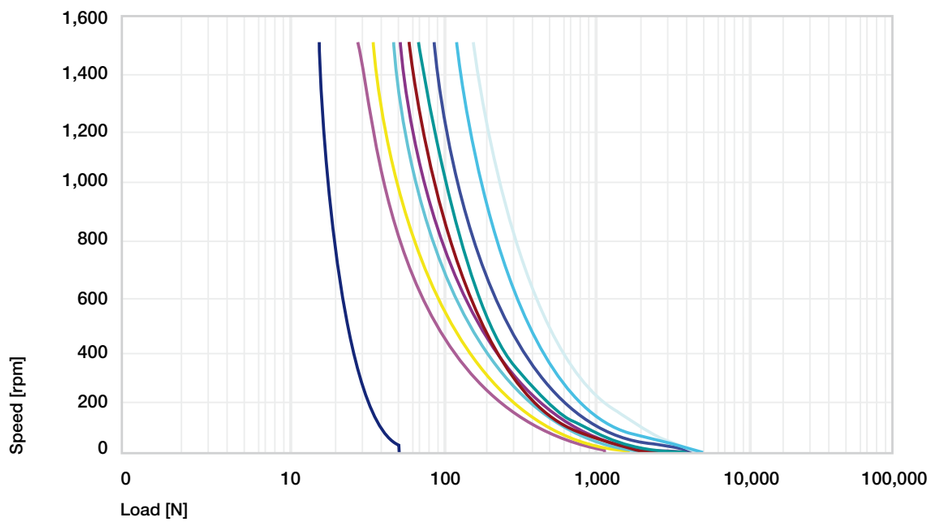


Diagram 10: Maximum dynamic load for lead screw drives with 100% ESD

Tr8x1,5 Tr10x2 Tr12x3 Tr16x4 Tr18x4
Tr20x4 Tr24x5 Tr30x6 Tr40x7 Tr50x8

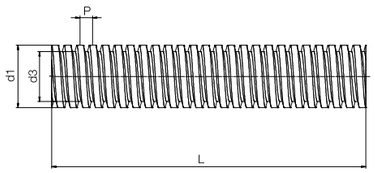
drylin® TR | Lead screws | Product range

Single start lead screws

CF15, rolled, AISI 1015

Stainless steel, rolled, AISI 304

Aluminium, rolled (EN AW 6082)



Technical data

Pitch variation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e

The tensile/compressive strength of the EN AW 6082 lead screw material is 160MPa per mm² (elongation limit 0.2mm).

Technical data

Thread	Hand of rotation right	Hand of rotation left	Material C15	Stainless steel AISI 304	Stainless steel AISI 303	Stainless steel AISI 316L	Stainless steel AISI 321	Aluminium EN AW 6082	Pitch P [mm]	Pitch angle α [°]
Tr8x1.5	●	●	●	●	–	–	–	–	1.5	3.42
Tr10x2	●	●	●	●	–	–	–	●	2	3.64
Tr10x3	●	●	●	–	–	●	–	–	3	5.45
Tr12x3	●	●	●	●	–	–	–	●	3	4.55
Tr14x3	●	●	●	●	–	–	–	–	3	3.90
Tr14x4	●	●	●	–	–	–	●	–	4	5.20
Tr16x2	●	●	●	–	●	–	–	–	2	2.28
Tr16x4	●	●	●	●	–	–	–	●	4	4.55
Tr18x4	●	●	●	●	–	–	–	●	4	4.05
Tr20x4	●	●	●	●	–	–	–	●	4	3.64
Tr24x5	●	●	●	●	–	–	–	–	5	3.79
Tr26x5	●	●	●	●	–	–	–	–	5	3.50
Tr28x5	●	●	●	●	–	–	–	–	5	3.25
Tr30x6	●	●	●	●	–	–	–	–	6	3.64
Tr32x6	●	●	●	–	●	–	–	–	6	3.42
Tr36x6	●	●	●	–	●	–	–	–	6	3.04
Tr40x7	●	●	●	–	●	–	–	–	7	3.19
Tr50x8	●	●	●	–	●	–	–	–	8	2.92

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Order key

Part number	Thread	Options

PTGSG-10X2-01-R-1000-ES

Lead screw	Diameter	Pitch	Number of thread pitches	Hand of rotation	Length [mm]	Lead screw material

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
Blank: C15, rolled
ES: Stainless steel, rolled
AL: Aluminium, rolled

ACME thread (US standard)
▶ **page 1620**

Dimensions [mm]

Weight C15 [kg/m]	Weight Stainless steel [kg/m]	Weight Aluminium [kg/m]	Outer Ø d1 min.	Outer Ø d1 max.	Core Ø d3 min.	Core Ø d3 max.	Max. total length L C15 / ES	Max. total length L AL	Part No.
0.39	0.40	0.14	7.8	8	5.4	6.2	1,500	–	PTGSG-8X1.5-01-□-□
0.62	0.62	0.21	9.8	10	7.2	7.5	3,000	1,000	PTGSG-10X2-01-□-□
0.62	0.62	0.21	9.8	10	6.2	6.5	3,000	–	PTGSG-10X3-01-□-□
0.89	0.89	0.31	11.8	12	7.7	8.5	3,000	1,000	PTGSG-12X3-01-□-□
1.21	1.22	0.42	13.8	14	9.7	10.5	3,000	–	PTGSG-14X3-01-□-□
1.21	1.22	0.42	13.7	14	9.1	9.5	3,000	–	PTGSG-14X4-01-□-□
1.58	1.59	0.54	15.8	16	11.8	12.8	3,000	–	PTGSG-16X2-01-□-□
1.58	1.59	0.54	15.7	16	10.5	11.5	3,000	1,000	PTGSG-16X4-01-□-□
2.00	2.01	0.69	17.7	18	12.5	13.5	3,000	2,000	PTGSG-18X4-01-□-□
2.47	2.48	0.85	19.7	20	14.5	15.5	3,000	2,000	PTGSG-20X4-01-□-□
3.55	3.57	1.22	23.7	24	17.3	18.5	3,000	–	PTGSG-24X5-01-□-□
4.17	4.19	1.43	25.7	26	19.3	20.5	3,000	–	PTGSG-26X5-01-□-□
4.83	4.86	1.66	27.7	28	21.3	22.5	3,000	–	PTGSG-28X5-01-□-□
5.55	5.58	1.91	29.6	30	21.6	23.0	3,000	–	PTGSG-30X6-01-□-□
6.31	6.35	2.17	31.6	32	24.5	25.0	3,000	–	PTGSG-32X6-01-□-□
7.99	8.04	2.75	35.6	36	27.6	29.0	3,000	–	PTGSG-36X6-01-□-□
9.86	9.93	3.39	39.6	40	30.4	32.0	3,000	–	PTGSG-40X7-01-□-□
15.41	15.51	5.30	49.6	50	39.2	41.0	3,000	–	PTGSG-50X8-01-□-□

The biggest online lead screw shop
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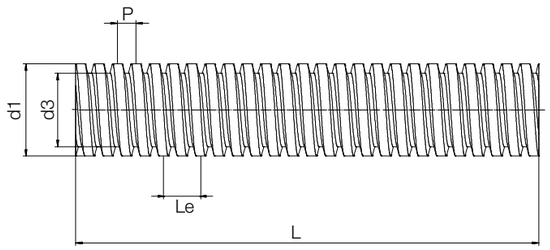
drylin® TR | Lead screws | Product range

Multi start lead screws

CF15, rolled, AISI 1015

Stainless steel, rolled, AISI 304



Technical data

Pitch variation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e

P = Pitch
Le = Lead/pitch

Order key

Part number	Thread			Options			
PTGSG-	10X4	P2-	02-	R	-1000-	ES	
Lead screw	Diameter	Pitch	Pitch	Number of thread pitches	Hand of rotation	Length [mm]	Lead screw material

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
Blank: C15, rolled, AISI 1015
ES: Stainless steel, rolled, AISI 304
AL: Aluminium, rolled

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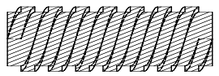
Technical data

Thread	Hand of rotation right	Hand of rotation left	Material C15	Material Stainless steel AISI 304	Total pitch Le [mm]	Pitch P [mm]	Pitch angle α [°]	Weight C15 [kg/m]	Weight Stainless steel [kg/m]
Tr06x2P1	●	–	●	●	2	1	6.06	0.22	0.22
Tr10x4P2	●	●	●	●	4	2	7.26	0.62	0.62
Tr12x6P3	●	●	●	●	6	3	9.04	0.89	0.89
Tr16x8P4	●	●	●	●	8	4	9.04	1.58	1.59
Tr18x8P4	●	●	●	●	8	4	8.05	2.00	2.01
Tr20x8P4	●	●	●	●	8	4	7.26	2.47	2.48

Dimensions [mm]

Outer Ø d1 min.	Outer Ø d1 max.	Core Ø d3 min.	Core Ø d3 max.	Max. total length L	Part No.
5.9	6	3.4	3.5	3,000	PTGSG-06X2P1-02-□-▭
9.8	10	7.2	7.5	3,000	PTGSG-10X4P2-02-□-▭
11.8	12	7.7	8.5	3,000	PTGSG-12X6P3-02-□-▭
15.7	16	10.5	11.5	3,000	PTGSG-16X8P4-02-□-▭
17.7	18	12.5	13.5	3,000	PTGSG-18X8P4-02-□-▭
19.7	20	14.5	15.5	3,000	PTGSG-20X8P4-02-□-▭

Definition: Multi start trapezoidal lead screw
Example 8P4 pitch



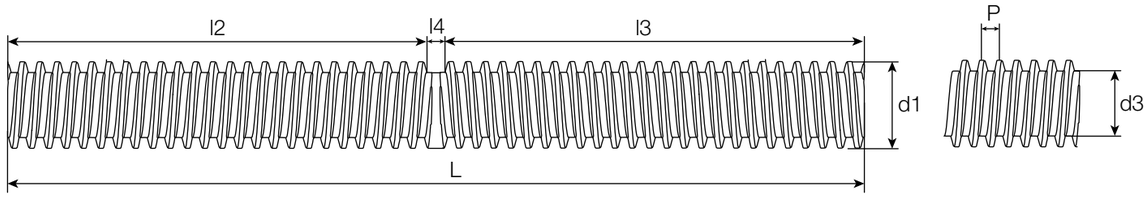
Pitch [P] = Pitch: distance to the next thread pitch, e.g. P4 = 4mm
Lead [Le] = Pitch: distance between threads flanks per thread pitch,
e.g. Pitch 8 = Distance of 8mm

drylin® TR | Lead screws | Product range

LH/RH lead screws

Technical data

Pitch variation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm
Tolerance (according to DIN 103)	7e



Order key

Part number	Thread	Options

PTGSG-10X2-01-R/L-100-100-ES

Lead screw	Diameter	Pitch	Thread pitches	LH/RH	[47] Length right [mm]	[48] Length left-hand [mm]	Lead screw material

Options:
[47] **l3:** Length right-hand thread
[48] **l2:** Length left-hand thread
Length in mm: Freely selectable (see table)
Lead screw material
Blank: C15, rolled, AISI 1015
ES: Stainless steel, rolled, AISI 304

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Technical data

Thread	Material C15	Material Stainless steel AISI 304	Pitch P [mm]	Pitch angle α [°]	Weight C15 [kg/m]	Weight Stainless steel [kg/m]
Tr10x2	●	●	2	3.64	0.62	0.62
Tr12x3	●	●	3	4.55	0.89	0.89
Tr14x4	●	●	4	5.20	1.21	1.22
Tr16x4	●	●	4	4.55	1.58	1.58
Tr18x4	●	●	4	4.05	2.00	2.01
Tr20x4	●	●	4	3.64	2.47	2.48
Tr24x5	●	●	5	3.79	3.55	3.57

[46] Non-usable thread transition
[47] Length right-hand thread (l3)
[48] Length left-hand thread (l2)

Dimensions [mm]

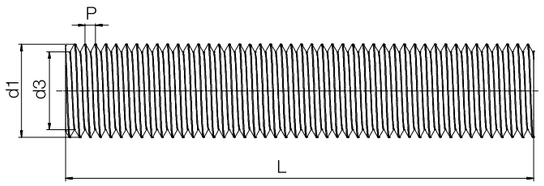
Outer Ø d1 min.	Outer Ø d1 max.	Core Ø d3 min.	Core Ø d3 max.	Thread transition l4[46]	Max. total length L	Part No.	
9.8	10	7.2	7.5	20	1,000	PTGSG-10X2-01-R/L-□[47]-□[48]	
11.8	12	7.7	8.5	30	1,000	PTGSG-12X3-01-R/L-□[47]-□[48]	New
13.7	14	9.1	9.5	40	1,000	PTGSG-14X4-01-R/L-□[47]-□[48]	
15.7	16	10.5	11.5	30	1,000	PTGSG-16X4-01-R/L-□[47]-□[48]	New
17.7	18	12.5	13.5	55	1,500	PTGSG-18X4-01-R/L-□[47]-□[48]	
19.7	20	14.5	15.5	55	2,000	PTGSG-20X4-01-R/L-□[47]-□[48]	
23.7	24	17.3	18.5	60	2,000	PTGSG-24X5-01-R/L-□[47]-□[48]	

drylin® TR | Lead screws | Product range

Metric lead screws

Technical data

Pitch variation	0.1mm to 300mm
Straightness (standard)	0.3mm to 300mm
Aligned	<0.1mm to 300mm
Tolerance (according to DIN 13)	6g



Order key

Part number	Thread	Options

PTGSG-M3-01-R-1000-ES

Lead screw	Thread size	Thread pitches	Hand of rotation	Length [mm]	Lead screw material

Options:
Length in mm: Freely selectable (see table)
Lead screw material
ES: Stainless steel, rolled, AISI 304

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We can then provide a quotation quickly.
▶ **www.igus-asean.com/leadscrew-configurator**

Technical data

Thread	Hand of rotation right	Material Stainless steel AISI 304	Pitch P [mm]	Pitch angle α [°]	Weight [kg/m]
M3	●	●	0.5	3.04	0.06
M4	●	●	0.7	3.19	0.10
M5	●	●	0.8	2.92	0.16
M6	●	●	1.0	3.04	0.22
M8	●	●	1.25	2.85	0.40
M10	●	●	1.5	2.73	0.62

Dimensions [mm]

Outer Ø d1 min.	Outer Ø d1 max.	Core Ø d3 min.	Core Ø d3 max.	Max. total length L	Part No.
2.8	3.0	2.2	2.3	1,000	**PTGSG-M3-01-R-□-ES**
3.8	4.0	2.9	3.1	1,000	**PTGSG-M4-01-R-□-ES**
4.8	4.9	3.8	4.0	1,000	**PTGSG-M5-01-R-□-ES**
5.7	5.9	4.5	4.7	1,000	**PTGSG-M6-01-R-□-ES**
7.8	8.0	6.47	6.65	1,000	**PTGSG-M8-01-R-□-ES**
9.8	10.0	8.16	8.38	1,000	**PTGSG-M10-01-R-□-ES**

drylin® TR | Lead screw nuts | Technical data

drylin® trapezoidal thread

Highly efficient at all speeds: iglidur® J

Thread	Efficiency η	Coefficient of friction μ
Single start		
Tr8x1.5	19–37	0.1–0.25
Tr10x2	20–39	0.1–0.25
Tr10x3	27–48	0.1–0.25
Tr12x3	24–44	0.1–0.25
Tr14x3	24–40	0.1–0.25
Tr14x4	26–47	0.1–0.25
Tr16x2	14–28	0.1–0.25
Tr16x4	24–44	0.1–0.25
Tr18x4	22–41	0.1–0.25
Tr20x4	20–39	0.1–0.25
Tr24x5	21–40	0.1–0.25
Tr26x5	19–38	0.1–0.25
Tr28x5	18–36	0.1–0.25
Tr30x6	20–39	0.1–0.25
Tr32x6	19–37	0.1–0.25
Tr36x6	17–34	0.1–0.25
Tr40x7	18–36	0.1–0.25
Tr50x8	17–34	0.1–0.25
Multi start		
Tr06x2P1	29–51	0.1–0.25
Tr10x4P2	33–55	0.1–0.25
Tr12x6P3	37–60	0.1–0.25
Tr16x8P4	37–60	0.1–0.25
Tr18x8P4	35–58	0.1–0.25
Tr20x8P4	33–55	0.1–0.25
Metric		
M3	17–34	0.1–0.25
M4	18–36	0.1–0.25
M5	17–34	0.1–0.25
M6	17–34	0.1–0.25
M8	16–33	0.1–0.25
M10	16–32	0.1–0.25

Highly resilient and wear-resistant: iglidur® W300

Efficiency η	Coefficient of friction μ
19–33	0.12–0.25
20–34	0.12–0.25
27–44	0.12–0.25
24–39	0.12–0.25
21–36	0.12–0.25
26–43	0.12–0.25
14–25	0.12–0.25
24–39	0.12–0.25
22–37	0.12–0.25
20–34	0.12–0.25
21–35	0.12–0.25
19–34	0.12–0.25
18–32	0.12–0.25
20–34	0.12–0.25
19–33	0.12–0.25
17–30	0.12–0.25
18–31	0.12–0.25
17–30	0.12–0.25
29–46	0.12–0.25
33–51	0.12–0.25
37–56	0.12–0.25
37–56	0.12–0.25
35–53	0.12–0.25
33–51	0.12–0.25
17–30	0.12–0.25
18–31	0.12–0.25
17–30	0.12–0.25
17–30	0.12–0.25
16–29	0.12–0.25
16–28	0.12–0.25

For temperatures up to +150°C: iglidur® J350

Thread	Efficiency η	Coefficient of friction μ
Single start		
Tr8x1.5	19–26	0.17–0.25
Tr10x2	20–27	0.17–0.25
Tr10x3	27–35	0.17–0.25
Tr12x3	24–34	0.17–0.25
Tr14x3	21–28	0.17–0.25
Tr14x4	26–34	0.17–0.25
Tr16x2	14–19	0.17–0.25
Tr16x4	24–31	0.17–0.25
Tr18x4	22–29	0.17–0.25
Tr20x4	20–27	0.17–0.25
Tr24x5	21–28	0.17–0.25
Tr26x5	19–26	0.17–0.25
Tr28x5	18–25	0.17–0.25
Tr30x6	20–27	0.17–0.25
Tr32x6	19–26	0.17–0.25
Tr36x6	17–24	0.17–0.25
Tr40x7	18–24	0.17–0.25
Tr50x8	–	–
Multi start		
Tr06x2P1	29–38	0.17–0.25
Tr10x4P2	33–42	0.17–0.25
Tr12x6P3	37–47	0.17–0.25
Tr16x8P4	37–47	0.17–0.25
Tr18x8P4	35–44	0.17–0.25
Tr20x8P4	33–42	0.17–0.25
Metric		
M3	17–24	0.17–0.25
M4	18–24	0.17–0.25
M5	17–23	0.17–0.25
M6	17–24	0.17–0.25
M8	16–22	0.17–0.25
M10	16–22	0.17–0.25

For medium to high speeds: iglidur® R

Efficiency η	Coefficient of friction μ
16–23	0.2–0.3
17–24	0.2–0.3
23–32	0.2–0.3
20–28	0.2–0.3
18–25	0.2–0.3
23–31	0.2–0.3
12–16	0.2–0.3
20–28	0.2–0.3
19–26	0.2–0.3
17–24	0.2–0.3
18–25	0.2–0.3
17–23	0.2–0.3
16–22	0.2–0.3
17–24	0.2–0.3
16–23	0.2–0.3
–	–
–	–
–	–
25–34	0.2–0.3
29–38	0.2–0.3
33–43	0.2–0.3
33–43	0.2–0.3
31–40	0.2–0.3
29–38	0.2–0.3
15–21	0.2–0.3
15–22	0.2–0.3
14–20	0.2–0.3
15–21	0.2–0.3
14–20	0.17–0.25
14–19	0.17–0.25

drylin® TR | Lead screw nuts | Product range

drylin® trapezoidal thread

FDA-compliant for the food/ pharmaceutical industry: iglidur® A180

Thread	Efficiency η	Coefficient of friction μ
Single start		
Tr8x1.5	19–28	0.15–0.25
Tr10x2	20–30	0.15–0.25
Tr10x3	27–38	0.15–0.25
Tr12x3	24–44	0.15–0.25
Tr14x3	21–31	0.15–0.25
Tr14x4	26–47	0.15–0.25
Tr16x2	14–21	0.15–0.25
Tr16x4	24–34	0.15–0.25
Tr18x4	22–32	0.15–0.25
Tr20x4	20–30	0.15–0.25
Tr24x5	21–30	0.15–0.25
Tr26x5	19–29	0.15–0.25
Tr28x5	18–27	0.15–0.25
Tr30x6	20–30	0.15–0.25
Tr32x6	19–28	0.15–0.25
Tr36x6	17–26	0.15–0.25
Tr40x7	18–27	0.15–0.25
Tr50x8	–	–
Multi start		
Tr06x2P1	29–41	0.15–0.25
Tr10x4P2	33–45	0.15–0.25
Tr12x6P3	37–50	0.15–0.25
Tr16x8P4	37–50	0.15–0.25
Tr18x8P4	35–48	0.15–0.25
Tr20x8P4	33–45	0.15–0.25
Metric		
M3	17–26	0.15–0.25
M4	18–27	0.15–0.25
M5	17–25	0.15–0.25
M6	17–26	0.15–0.25
M8	16–25	0.15–0.25
M10	16–24	0.15–0.25

For high speeds: iglidur® E7

Efficiency η	Coefficient of friction μ
16–23	0.2–0.3
17–24	0.2–0.3
23–32	0.2–0.3
20–28	0.2–0.3
18–25	0.2–0.3
23–31	0.2–0.3
–	–
–	–
–	–

drylin® TR | Lead screw nuts | Product range

Single start lead screw nuts, cylindrical (form S)

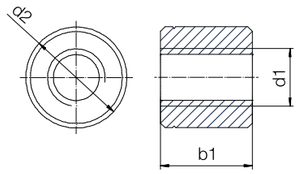
iglidur® J

iglidur® W300

iglidur® J350

iglidur® R

iglidur® A180



Order key

Type	d2	b1	Thread
☐ S R M-22 15 TR 10X2			

iglidur® material | Form S | Hand of rotation | Metric | Outer Ø [mm] | Length [mm] | Thread type | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180
Tr8x1.5	●	●	205	500[43]	500[43]	500[43]	500[43]	500[43]
Tr8x1.5	●	●	137	547	683	410	273	478
Tr10x2	●	●	212	848	1,060	636	424	742
Tr10x2	●	●	283	1,131	1,414	848	565	990
Tr10x3	●	●	200	801	1,001	601	401	701
Tr10x3	●	●	267	1,068	1,335	801	534	935
Tr12x3	●	●	297	1,188	1,484	891	594	1,039
Tr12x3	●	●	396	1,583	1,979	1,188	792	1,385
Tr14x3	●	●	550	2,199	2,749	1,649	1,100	1,924
Tr14x4	●	●	396	1,583	1,979	1,188	792	1,385
Tr14x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x2	●	●	565	2,262	2,827	1,696	1,131	1,979
Tr16x2	●	●	754	3,016	3,770	2,262	1,508	2,639
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr16x4	●	●	704	2,815	3,519	2,111	1,407	2,463
Tr18x4	●	●	679	2,362[43]	2,362[43]	2,362[43]	2,362[43]	2,362[43]
Tr18x4	●	●	679	2,714	3,393	2,036	1,357	2,375
Tr18x4	●	●	905	3,619	4,524	2,714	1,810	3,167

[43] Reduced axial load due to nut geometry

Dimensions [mm]

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	W300	J350	R	A180	Part No.
8	14	18	2.8	2.9	2.7	2.6	2.7	☐S☐M-1418TR8X1.5
8	18	12	3.7	3.8	3.5	3.4	3.6	☐S☐M-1812TR8X1.5
10	22	15	6.7	7.0	6.5	6.3	6.6	☐S☐M-2215TR10X2
10	22	20	9.0	9.3	8.7	8.4	8.8	☐S☐M-2220TR10X2
10	22	15	6.7	7.0	6.5	6.3	6.6	☐S☐M-2215TR10X3
10	22	20	9.0	9.3	8.7	8.4	8.8	☐S☐M-2220TR10X3
12	26	18	11.2	11.6	10.8	10.5	11.0	☐S☐M-2618TR12X3
12	26	24	14.9	15.4	14.4	13.9	14.6	☐S☐M-2624TR12X3
14	30	28	23.1	23.8	22.3	21.5	22.6	☐S☐M-3028TR14X3
14	30	21	17.3	17.9	16.7	16.1	17.0	☐S☐M-3021TR14X4
14	30	28	23.1	23.8	22.3	21.5	22.6	☐S☐M-3028TR14X4
16	36	24	29.2	30.1	28.2	27.2	28.6	☐S☐M-3624TR16X2
16	36	32	38.9	40.2	37.6	36.3	38.2	☐S☐M-3632TR16X2
16	30	24	18.1	18.7	17.5	16.9	17.7	☐S☐M-3024TR16X4
16	36	24	29.2	30.1	28.2	27.2	28.6	☐S☐M-3624TR16X4
16	36	32	38.9	40.2	37.6	36.3	38.2	☐S☐M-3632TR16X4
18	30	27	18.2	18.8	17.6	17.0	17.8	☐S☐M-3027TR18X4
18	40	27	40.3	41.6	39.0	37.6	39.5	☐S☐M-4027TR18X4
18	40	36	53.8	55.5	52.0	50.1	52.7	☐S☐M-4036TR18X4

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Single start lead screw nuts, cylindrical (form S)

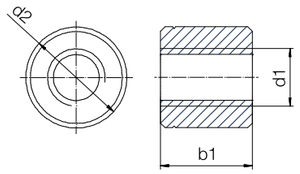
iglidur® J

iglidur® W300

iglidur® J350

iglidur® R

iglidur® A180



Order key

Type	d2	b1	Thread
☐ S R M-30	25	TR	20X4

iglidur® material | Form S | Hand of rotation | Metric | Outer Ø [mm] | Length [mm] | Thread type | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180
Tr20x4	●	●	707	2,060[43]	3,534	2,121	1,414	2,474
Tr20x4	●	●	848	3,393	4,241	2,545	1,696	2,969
Tr20x4	●	●	1,131	4,524	5,655	3,393	2,262	3,958
Tr24x5	●	●	1,216	4,863	6,079	3,647	2,432	4,255
Tr24x5	●	●	1,621	6,484	8,105	4,863	3,242	5,674
Tr26x5	●	●	1,440	5,759	7,198	4,319	2,879	5,039
Tr26x5	●	●	1,920	7,678	9,598	5,759	3,839	6,718
Tr28x5	●	●	1,682	6,729	8,412	5,047	3,365	5,888
Tr28x5	●	●	2,243	8,972	11,215	6,729	4,486	7,851
Tr30x6	●	●	1,909	7,634	9,543	5,726	3,817	6,680
Tr30x6	●	●	2,545	10,179	12,723	7,634	5,089	8,906
Tr32x6	●	●	3,134	12,535	15,669	9,401	6,267	10,968
Tr36x6	●	●	3,732	14,929	18,661	–	–	13,063
Tr40x7	●	●	4,587	18,347	22,934	–	–	16,054
Tr50x8	●	●	7,226	28,903	–	–	–	–

[43] Reduced axial load due to nut geometry

Dimensions [mm]

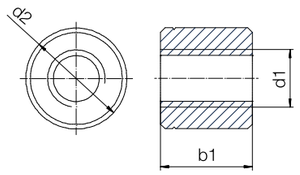
d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	W300	J350	R	A180	Part No.
20	30	25	14.6	15.1	14.1	13.6	14.3	☐S☐M-3025TR20X4
20	45	30	57.0	58.9	55.1	53.2	55.9	☐S☐M–4530TR20X4
20	45	40	76.1	78.5	73.5	71.0	74.5	☐S☐M–4540TR20X4
24	50	36	81.1	83.6	78.3	75.6	79.4	☐S☐M–5036TR24X5
24	50	48	108.1	111.5	104.4	100.8	105.9	☐S☐M–5048TR24X5
26	50	39	83.2	85.9	80.5	77.7	81.6	☐S☐M–5039TR26X5
26	50	52	111.0	114.5	107.3	103.5	108.8	☐S☐M–5052TR26X5
28	60	42	138.4	142.8	133.8	129.1	135.6	☐S☐M–6042TR28X5
28	60	56	184.5	190.4	178.3	172.2	180.8	☐S☐M–6056TR28X5
30	60	45	142.2	146.7	137.4	132.6	139.3	☐S☐M–6045TR30X6
30	60	60	189.6	195.6	183.2	176.9	185.8	☐S☐M–6060TR30X6
32	60	60	180.9	186.7	174.8	168.7	177.2	☐S☐M–6060TR32X6
36	75	72	364.8	376.4	–	–	357.4	☐S☐M–7572TR36X6
40	76	80	391.0	403.4	–	–	383.1	☐S☐M–7680TR40X7
50	90	100	655.3	–	–	–	–	☐S☐M–90100TR50X8

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Multi start lead screw nuts, cylindrical (form S)

iglidur® J | iglidur® W300 | iglidur® J350 | iglidur® R | iglidur® A180 | iglidur® E7



Order key

Type	d2	b1	Thread
☐ S R M-28	35	TR	12X6P3

iglidur® material | Form S | Hand of rotation | Metric | Outer Ø [mm] | Length [mm] | Thread type | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
E7	For high speeds

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180	E7
Tr06x2P1	●	–	112	200[43]	200[43]	200[43]	200[43]	200[43]	56
Tr10x4P2	●	●	396	1,346	1,682	1,009	673	1,178	–
Tr12x6P3	●	●	396	1,346	1,682	1,009	673	1,178	–
Tr16x8P4	●	●	528	1,794	2,243	1,346	897	1,570	–
Tr16x8P4	●	●	704	2,393	2,991	1,794	1,196	2,094	–
Tr18x8P4	●	–	804	2,734	3,418	2,051	1,367	2,393	–
Tr20x8P4	●	–	1,131	3,845	4,807	2,884	1,923	3,365	–

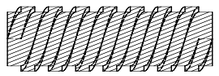
[43] Reduced axial load due to nut geometry

Dimensions [mm]

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	W300	J350	R	A180	E7	Part No.
6	14	13	2.4	2.5	2.4	2.3	2.4	2.4	☐SRM-1413TR06X2P1
12	26	24	14.9	12.4	14.4	13.9	14.6	–	☐S☐M-2624TR10X4P2
12	30	24	21.2	17.7	20.5	19.8	20.8	–	☐S☐M-3024TR12X6P3
16	30	24	18.1	15.1	17.5	16.9	17.7	–	☐S☐M-3024TR16X8P4
16	36	32	38.9	32.4	37.6	36.3	38.2	–	☐S☐M-3632TR16X8P4
18	40	36	53.8	44.7	52.0	50.1	52.7	–	☐SRM-4036TR18X8P4
20	45	40	76.1	63.3	73.5	71.0	74.5	–	☐SRM-4540TR20X8P4

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Definition: Multi start trapezoidal lead screw
Example 8P4 pitch



P4 pitch: Distance to the next thread pitch 4mm
Pitch 8: Pitch 8mm

drylin® TR | Lead screw nuts | Product range

Cylindrical lead screw nuts with spanner flat

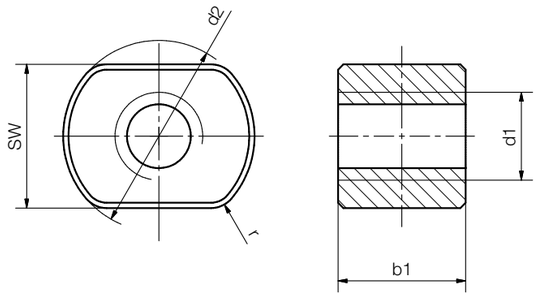
iglidur® J

iglidur® W300

iglidur® J350

iglidur® R

iglidur® A180



Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective support surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180
Tr10x2	●	●	283	1,131	1,414	848	565	990
Tr12x3	●	●	396	1,583	1,979	1,188	792	1,385
Tr16x4	●	●	528	2,111	2,639	1,583	1,056	1,847
Tr20x4	●	●	1,131	4,524	5,655	3,393	2,262	3,958
Tr24x5	●	●	1,621	6,484	8,105	4,863	3,242	5,674
Tr30x6	●	●	2,545	10,179	12,723	7,634	5,089	8,906

Order key

Type					SW	d2	b1	Thread
☐ S	R	M-	17	22	20	TR	10X2	

iglidur® material | Form S | Hand of rotation | Metric | Width across flats | Outer Ø [mm] | Length [mm] | Trapezoidal thread | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

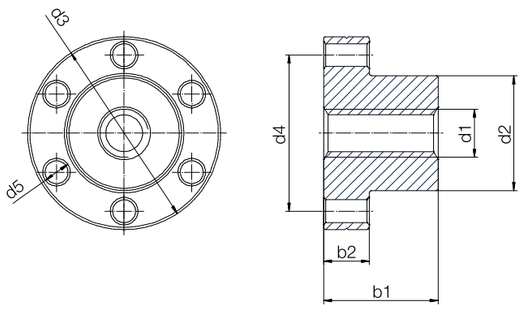
Dimensions [mm]

d1[156]	d2[156]	b1[156]	SW	Weight [g] iglidur® J	W300	J350	R	A180	Part No.
10	22	20	17	4.7	3.9	4.5	4.4	4.6	☐S☐M-172220TR10X2
12	26	24	19	10.9	9.1	10.5	10.2	10.7	☐S☐M-192624TR12X3
16	36	24	27	22.0	18.3	21.3	20.5	21.6	☐S☐M-273624TR16X4
20	45	40	30	57.3	47.7	55.4	53.5	56.2	☐S☐M-304540TR20X4
24	50	48	36	75.7	63.0	73.2	70.6	74.2	☐S☐M-365048TR24X5
30	60	60	45	126.4	105.2	123.8	122.1	117.9	☐S☐M-456060TR30X6

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Single start lead screw nuts with flange (form F)



Order key

Type	d2	b1	Thread
☐ F R M-22	20	TR	10X2

iglidur® material | Form F | Hand of rotation | Metric | Outer Ø [mm] | Length [mm] | Trapezoidal thread | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
J200	The specialist on hard anodised aluminium

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180	J200
Tr8x1.5	●	●	228	911	1,139	683	456	797	–
Tr10x2	●	●	353	1,414	1,767	1,060	707	1,237	–
Tr10x3	●	●	334	1,335	1,669	1,001	668	1,168	–
Tr12x3	●	●	577	2,309	2,886	1,732	1,155	2,020	–
Tr14x3	●	●	687	2,749	3,436	2,062	1,374	2,405	–
Tr14x4	●	●	660	2,639	3,299	1,979	1,319	2,309	–
Tr16x2	●	●	825	3,299	4,123	2,474	1,649	2,886	1,650
Tr16x4	●	●	770	3,079	3,848	2,309	1,539	2,694	1,540
Tr18x4	●	●	880	3,519	4,398	2,639	1,759	3,079	1,760
Tr20x4	●	●	1,244	4,976	6,220	3,732	2,488	4,354	2,488
Tr24x5	●	●	1,486	5,944	7,430	4,458	2,972	5,201	2,972
Tr26x5	●	●	1,698	6,320[43]	6,320[43]	6,320[43]	6,320[43]	6,320[43]	–
Tr28x5	●	●	1,843	4,560[43]	4,560[43]	4,560[43]	4,560[43]	4,560[43]	–
Tr30x6	●	●	1,951	3,576[43]	3,576[43]	3,576[43]	3,576[43]	3,576[43]	–
Tr30x6	●	●	1,951	7,804	9,755	–	–	6,828	–
Tr32x6	●	●	2,095	8,382	10,477	–	–	–	–
Tr36x6	●	●	3,629	14,514	–	–	–	–	–
Tr40x7	●	●	4,013	16,054	–	–	–	–	–

[43] Reduced load due to nut geometry

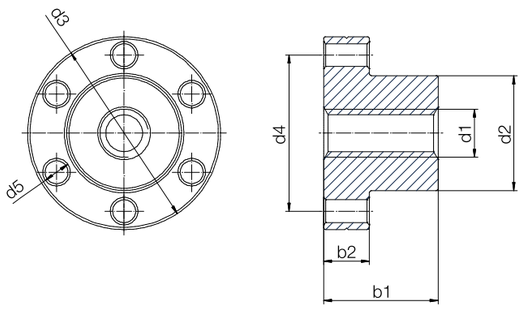
Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Weight [g] iglidur® J	W300	J350	R	A180	J200	Part No.
8	20	36	28	4	20	8	16.3	13.5	15.7	15.2	15.9	–	☐F☐M-2020TR8X1.5
10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	–	☐F☐M-2525TR10X2
10	25	42	34	5	25	10	28.7	23.9	27.7	26.8	28.1	–	☐F☐M-2525TR10X3
12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	–	☐F☐M-2835TR12X3
14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	–	☐F☐M-2835TR14X3
14	28	48	38	6	35	12	45.4	37.8	43.9	42.4	44.5	–	☐F☐M-2835TR14X4
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	☐F☐M-2835TR16X2
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	☐F☐M-2835TR16X4
18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48	☐F☐M-2835TR18X4
20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73	☐F☐M-3244TR20X4
24	32	55	45	7	44	12	51.2	42.6	49.5	47.7	50.1	66	☐F☐M-3244TR24X5
26	38	62	50	7	46	14	80.7	67.1	78.0	75.2	79.0	–	☐F☐M-3846TR26X5
28	38	62	50	7	46	14	74.8	62.3	72.3	69.8	73.3	–	☐F☐M-3846TR28X5
30	38	62	50	7	46	14	68.6	57.1	66.3	64.0	67.2	–	☐F☐M-3846TR30X6
30	45	70	58	7	46	16	114.4	95.2	–	–	112.1	–	☐F☐M-4546TR30X6
32	45	70	58	7	46	16	72.6	60.4	–	–	–	–	☐F☐M-4546TR32X6
36	67	95	81	7	70	25	394.3	–	–	–	–	–	☐F☐M-6770TR36X6
40	67	95	81	7	70	25	369.4	–	–	–	–	–	☐F☐M-6770TR40X7

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Multi start lead screw nuts with flange (form F)



Order key

Type	d2	b1	Thread
☐ F R M-28	35	TR	12X6P3

iglidur® material	Form F	Hand of rotation	Metric	Outer Ø [mm]	Length [mm]	Thread type	Diameter [mm]	Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries
J200	The specialist on hard anodised aluminium

Technical data

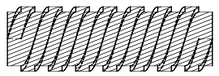
Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180	J200
Tr06x2P1	●	–	130	441	551	1,124	936	386	–
Tr10x4P2	●	–	353	1,202	1,502	1,051	3,064	2,552	–
Tr12x6P3	●	●	577	1,963	2,453	5,005	4,171	1,717	–
Tr16x8P4	●	●	770	2,617	3,271	6,673	5,561	2,290	1,540
Tr18x8P4	●	–	880	2,991	3,738	7,627	6,355	2,617	1,760
Tr20x8P4	●	–	1,244	4,230	5,287	10,786	8,988	3,701	2,488

Dimensions [mm]

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Weight [g] iglidur® J	W300	J350	R	A180	J200	Part No.
6	13	25	19	3.2	15	5	5.0	4.2	4.8	4.7	4.9	–	☐FRM-1315TR06X2P1
10	25	42	34	5	25	10	25.6	21.3	25.1	24.8	23.9	–	☐FRM-2525TR10X4P2
12	28	48	38	6	35	12	47.6	39.6	46.0	44.4	46.6	–	☐F☐M-2835TR12X6P3
16	28	48	38	6	35	12	43.0	35.8	41.5	40.1	42.1	50	☐F☐M-2835TR16X8P4
18	28	48	38	6	35	12	40.2	33.4	38.8	37.5	39.4	48	☐FRM-2835TR18X8P4
20	32	55	45	7	44	12	60.2	50.1	58.2	56.2	59.0	73	☐FRM-3244TR20X8P4

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

Definition: Multi start trapezoidal lead screw
Example 8P4 pitch



P4 pitch: Distance to the next thread pitch 4mm
Pitch 8: Pitch 8mm

drylin® TR | Lead screw nuts | Product range

Lead screw nuts with spanner flat, with flange

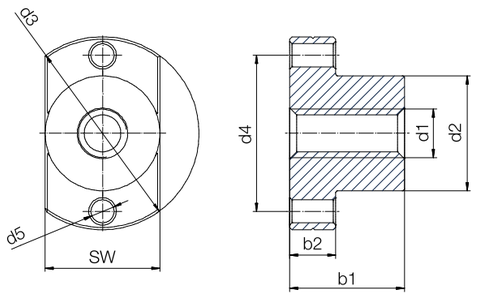
iglidur® J

iglidur® W300

iglidur® J350

iglidur® R

iglidur® A180



Order key

Type	SW	d2	b1	Thread
☐ F R M-13	13	13	TR	6X2 P1

iglidur® material | Form F | Hand of rotation | Metric | Width across flats | Outer Ø [mm] | Length [mm] | Trapezoidal thread | Diameter [mm] | Pitch

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective support surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180
single start								
Tr8x1.5	●	●	228	911	1,139	683	456	797
Tr10x2	●	●	353	1,414	1,767	1,060	707	1,237
Tr12x3	●	●	577	2,309	2,886	1,732	1,155	2,020
Tr14x4	●	●	660	2,639	3,299	1,979	1,319	2,309
Tr16x4	●	●	770	3,079	3,848	2,309	1,539	2,694
Tr18x4	●	●	880	3,519	4,398	2,639	1,759	3,079
Multi start								
Tr06x2P1	●	–	118	175[43)]	175[43)]	175[43)]	175[43)]	175[43)]
Metric								
M5	●	–	56	75[43)]	75[43)]	75[43)]	75[43)]	75[43)]
M8	●	–	278	911	1,139	683	456	797
M10	●	–	437	1,414	1,767	1,040	1,155	1,237

[43)] Reduced load due to nut geometry

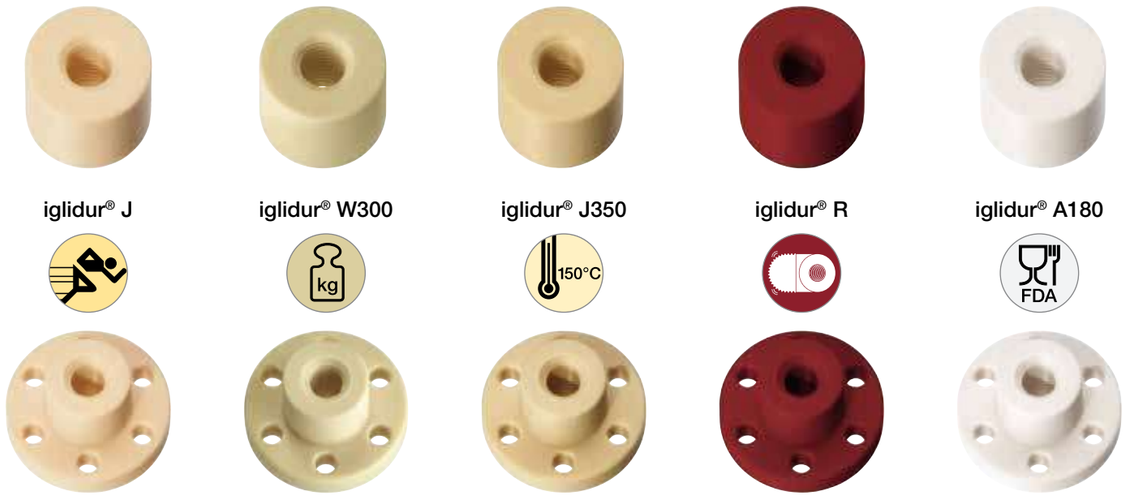
Dimensions [mm]

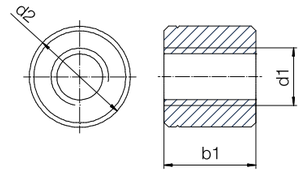
d1[156)]	d2[156)]	d3	d4	d5	b1[156)]	b2	SW	Weight [g] iglidur® J	W300	J350	R	A180	Part No.
8	20	36	28	4	20	8	20	12.7	10.6	–	–	12.4	☐F☐M-202020TR8X1.5
10	25	42	34	5	25	10	25	23.7	19.7	12.28	22.10	23.2	☐F☐M-252525TR10X2
12	28	48	38	6	35	12	28	39.2	32.7	37.92	36.60	38.4	☐F☐M-282835TR12X3
14	28	48	38	6	35	12	28	37.1	30.9	35.86	34.61	36.4	☐F☐M-282835TR14X4
16	28	48	38	6	35	12	28	34.6	28.8	33.48	32.32	33.9	☐F☐M-282835TR16X4
18	28	48	38	6	35	12	28	31.9	26.5	30.79	29.72	31.2	☐F☐M-282835TR18X4
6	13	25	19	3.2	15	5	13	3.8	3.1	3.5	–	3.7	☐FRM-131315TR06X2P1
5	9	18	15.2	3.2	13	3	9	1.3	1.1	1.2	–	1.3	☐FRM-090913M5
8	20	36	28	4	20	8	20	12.7	10.57	12.28	11.85	12.45	☐FRM-202020M8
10	25	42	34	5	25	10	25	23.7	19.70	22.90	22.10	23.20	☐FRM-252525M10

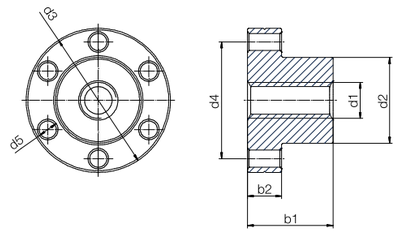
[156)] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Metric lead screw nuts, right-hand thread







Also available as flanged nut and spanner flats ▶ Page 1312

Order key

Type	d2	b1	Thread
☐ S R M-14	13		M3

iglidur® material | Form S | Hand of rotation | Metric | Outer Ø [mm] | Length [mm] | Diameter

Options:
Form S: Cylindrical
Form F: With flange

J	High efficiency at all speeds
W(300)	Extremely strong and wear-resistant
J350	For temperatures up to +150°C
R	The cost-effective option for high volume
A180	FDA-compliant for the food and pharmaceutical industries

Technical data

Thread	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	W300	J350	R	A180
Cylindrical (form S)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	112	449	562	337	225	393
M8	151	602	753	452	301	527
M10	189	756	944	567	378	661
With flange (form F)						
M3	56	225	281	168	112	197
M4	75	298	373	224	149	261
M5	94	376	470	282	188	329
M6	130	518	648	389	259	454
M8	228	911	1,139	683	456	797
M10	253	1,414	1,767	1,060	707	1,237

Dimensions [mm]

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	W300	J350	R	A180	Part No.
3	14	13	2.8	2.4	2.7	2.7	2.8	☐SRM-1413M3
4	14	13	2.7	2.3	2.6	2.6	2.7	☐SRM-1413M4
5	14	13	2.6	2.2	2.5	2.4	2.5	☐SRM-1413M5
6	14	13	2.4	2.0	2.4	2.3	2.4	☐SRM-1413M6
8	20	18	7.08	5.89	6.69	6.60	6.94	☐SRM-2018M8
10	22	20	8.99	7.48	8.69	8.38	8.81	☐SRM-2220M10

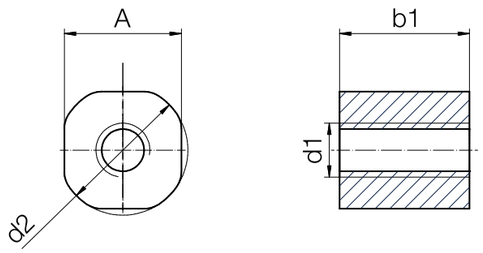
d1	d2	d3	d4	d5	b1	b2						
3	9	18	15.2	3.2	13	3	1.9	1.6	1.9	1.8	1.9	☐FRM-0913M3
4	9	18	15.2	3.2	13	3	1.8	1.5	1.8	1.7	1.8	☐FRM-0913M4
5	9	18	15.2	3.2	13	3	1.7	1.4	1.6	1.6	1.7	☐FRM-0913M5
6	13	25	19	3.2	15	5	4.7	3.9	4.5	4.4	4.6	☐FRM-1315M6
8	20	36	28	4	20	8	16.25	13.53	15.93	15.71	15.17	☐FRM-2020M8
10	25	42	34	5	25	10	28.69	23.88	28.11	27.73	26.76	☐FRM-2525M10

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts, cylindrical (form S)

Image exemplary



Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. static axial F [N]
Single start				
Tr8x1.5	●	●	228	500[43]
Tr8x1.5	●	–	228	114.0
Tr10x2	●	●	283	1,131
Tr10x2	●	–	238	119.0
Tr10x3	●	●	267	1,068
Tr10x3	●	–	267	134.0
Tr12x3	●	●	412	1,649
Tr12x3	●	–	412	206.0
Tr14x3	●	●	491	1,963
Tr14x3	●	–	491	245.5
Tr14x4	●	●	471	1,885
Tr14x4	●	–	471	235.5
Tr16x2	●	●	589	2,356
Tr16x4	●	–	550	2,199
Tr18x4	●	●	628	2,362
multi start				
Tr10x4P2	●	–	325	1,106
Tr12x6P3	●	–	396	1,346
Tr16x8P4	●	–	528	1,794
Tr18x8P4	●	–	804	2,734

[43] Reduced load due to nut geometry

Order key

Type								d2	b1	Thread
J	S	□	M-	C	-01-	TR	10X12			

iglidur® material | Form S | Hand of rotation | Metric | Thread: cut | Type | Thread type | Diameter [mm] | Pitch

J	High efficiency at all speeds
E7	For high speeds

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

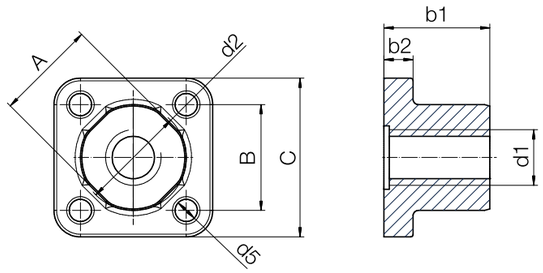
Dimensions [mm]

d1[156]	d2[156]	A	b1[156]	Weight [g]	Part No.	
8	20	19	20	7.86	JS□M-C-01-TR8X1.5	
8	20	18	20	5.00	E7SRM-C-01-TR8X1.5	New
10	20	19	20	7.02	JS□M-C-01-TR10X2	
10	20	18	20	5.00	E7SRM-C-01-TR10X2	New
10	20	19	20	7.02	JS□M-C-01-TR10X3	
10	20	18	20	5.00	E7SRM-C-01-TR10X3	New
12	24	22.6	25	12.64	JS□M-C-01-TR12X3	
12	24	22.6	25	9.80	E7SRM-C-01-TR12X3	New
14	24	22.6	25	11.12	JS□M-C-01-TR14X3	
14	24	22.6	25	9.80	E7SRM-C-01-TR14X3	New
14	24	22.6	25	11.12	JS□M-C-01-TR14X4	
14	24	22.6	25	9.80	E7SRM-C-01-TR14X4	New
16	28	26.2	25	15.45	JS□M-C-01-TR16X2	
16	28	26.2	25	15.45	JS□M-C-01-TR16X4	
18	28	26.2	25	13.46	JS□M-C-01-TR18X4	
10	20	19	20	7.02	JSRM-C-01-TR10X4P2	
12	24	22.6	25	12.64	JSRM-C-01-TR12X6P3	
16	28	26.2	25	15.45	JSRM-C-01-TR16X8P4	
18	28	26.2	25	13.46	JSRM-C-01-TR18X8P4	

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Cost-effective injection-moulded lead screw nuts with flange (form F)



Order key

Type	d2	b1	Thread

J F □ M- C -01-TR 10X12

iglidur® material	Form F	Hand of rotation	Metric	Thread: cut	Type	Thread type	Diameter [mm]	Pitch

J	High efficiency at all speeds
E7	For high speeds

Options:
Hand of rotation
R: Right-hand thread
L: Left-hand thread

Technical data

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	Max. stat. axial F [N] iglidur® E7
Single start					
Tr8x1.5	●	●	228	911	114
Tr10x2	●	●	283	1,131	142
Tr10x3	●	●	267	1,068	134
Tr12x3	●	●	412	1,649	–
Tr14x3	●	●	491	1,963	–
Tr14x4	●	●	471	1,885	–
Tr16x2	●	●	589	2,356	–
Tr16x4	●	●	550	2,199	–
Tr18x4	●	●	628	2,513	–
multi start					
Tr10x4P2	●	–	353	1,202	134
Tr12x6P3	●	–	577	1,963	–
Tr16x8P4	●	–	770	2,617	–
Tr18x8P4	●	–	880	2,991	–

Dimensions [mm]

d1[156]	d2[156]	A	B	C	d5	b1[156]	b2	Weight [g] iglidur® J	Weight [g] iglidur® E7	Part No.
8	20	19.0	20	30	4.2	20	5.5	7.4	1.9	□F□M-C-01-TR8X1.5
10	20	19.0	20	30	4.2	20	5.5	7.4	9.0	□F□M-C-01-TR10X2
10	20	19.0	20	30	4.2	20	5.5	7.4	9.0	□F□M-C-01-TR10X3
12	24	22.6	24	34	5	25	6	10.3	–	JF□M-C-01-TR12X3
14	24	22.6	24	34	5	25	6	10.3	–	JF□M-C-01-TR14X3
14	24	22.6	24	34	5	25	6	10.3	–	JF□M-C-01-TR14X4
16	28	25.5	27	38	6	25	6.5	14.0	–	JF□M-C-01-TR16X2
16	28	25.5	27	38	6	25	6.5	14.0	–	JF□M-C-01-TR16X4
18	28	25.5	27	38	6	25	6.5	14.0	–	JF□M-C-01-TR18X4
10	20	19.0	20	30	4.2	20	5.5	10.9	9.0	□FRM-C-01-TR10X4P2
12	24	22.6	24	34	5	25	6	19.9	–	JFRM-C-01-TR12X6P3
16	28	25.5	27	38	6	25	6.5	25.4	–	JFRM-C-01-TR16X8P4
18	28	25.5	27	38	6	25	6.5	23.9	–	JFRM-C-01-TR18X8P4

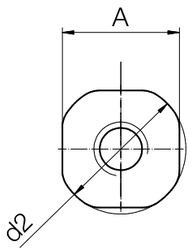
[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

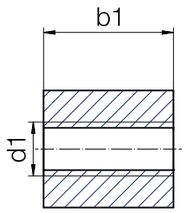
drylin® TR | Lead screw nuts | Product range

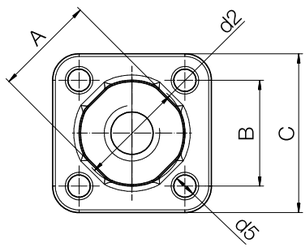
Cost-effective metric injection-moulded lead screw nuts

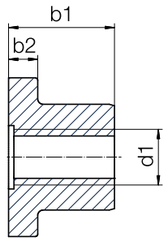
Cylindrical (form S)

With flange (form F)









Technical data

Thread	Effective supporting surface [mm²]	Max. static axial F [N]
Cylindrical (form S)		
M5	94	376
M6	112	449
M8	151	602
With flange (form F)		
M5	90	358
M6	104	415
M8	232	927

Order key

Type				d2	b1	Thread
J	S	R	M-	C -	01-	M5
igliduR® material	Form S	Hand of rotation	Metric	Thread: cut	Type	Diameter

Options:
Form S: Cylindrical
Form F: With flange

Dimensions [mm]

d1[156]	d2[156]	A	b1[156]	Weight [g]	Part No.
5	12	11	12	1.67	JSRM-C-01-M5
6	12	11	12	1.52	JSRM-C-01-M6
8	20	19	20	7.86	JSRM-C-01-M8

d1	d2	A	B	C	d5	b1	b2	[g]	
5	12	11	12	18	3.2	12	4	3.05	JFRM-C-01-M5
6	12	11	12	18	3.2	12	4	2.94	JFRM-C-01-M6
8	20	19	20	30	4.2	20	5.5	13.08	JFRM-C-01-M8

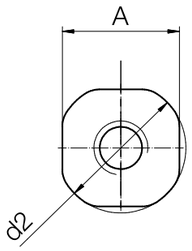
[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

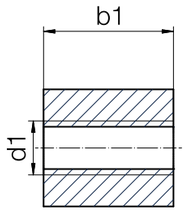
drylin® TR | Lead screw nuts | Product range

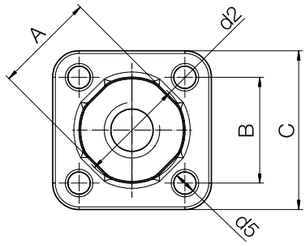
Cost-effective injection-moulded lead screw nuts

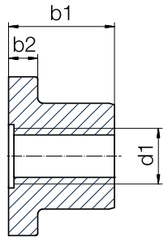
Cylindrical (form S)

With flange (form F)









Technical data

Thread	Effective supporting surface [mm²]	Max. static axial F [N]
Cylindrical (form S)		
Tr8x1.5	228	500[43)]
Tr10x2	283	1,131
Tr16x4	550	2,199
With flange (form F)		
Tr8x1.5	118	471
Tr10x2	228	911
Tr16x4	353	1,414

[43)] Reduced load due to nut geometry

Order key

Type				d2	b1	Thread		
J	F	R	M-	M-	01-	TR	10X12	
iglidur® material	Form F	Hand of rotation	Metric	Thread: injectionmoulding	Type	Thread type	Diameter [mm]	Pitch

Options:
Form S: Cylindrical
Form F: With flange

Dimensions [mm]

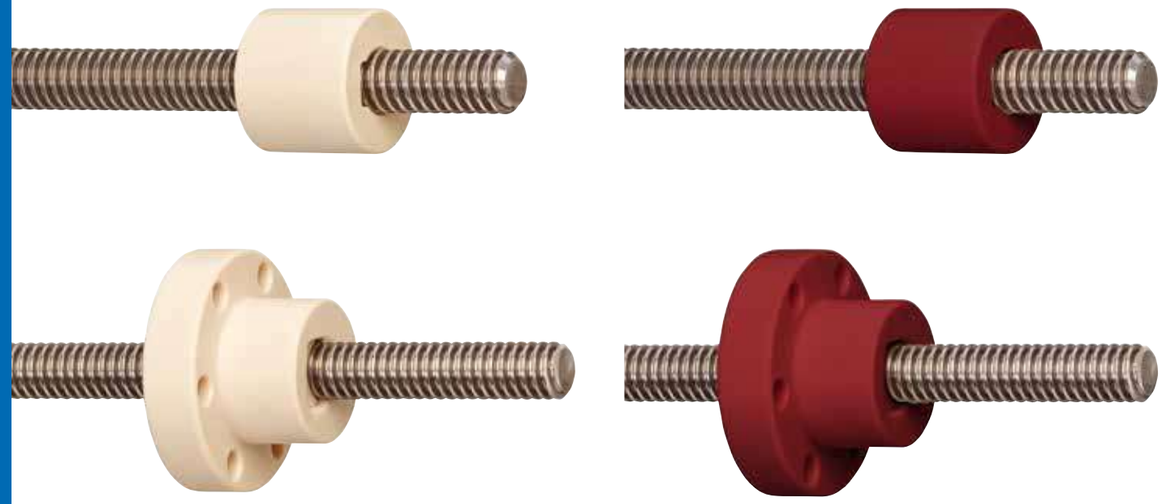
d1[156)]	d2[156)]	A	b1[156)]	Weight [g]	Part No.
8	20	19	20	7.86	**JSRM-M-01-TR8X1.5**
10	20	19	20	7.02	**JSRM-M-01-TR10X2**
16	28	26.16	25	15.45	**JSRM-M-01-TR16X4**

d1	d2	A	B	C	d5	b1	b2	[g]	
8	20	19	20	30	4.2	20	5.5	7.38	**JFRM-M-01-TR8X1.5**
10	20	19	20	30	4.2	20	5.5	7.38	**JFRM-M-01-TR10X2**
16	28	25.5	27	38	6	25	6.5	13.99	**JFRM-M-01-TR16X4**

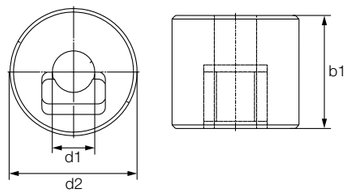
[156)] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

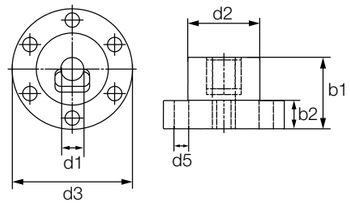
Anti-backlash lead screw nuts, cylindrical/with flange



Backlash is the phenomenon created on the lead screw drive by the axial clearance. By adding a radial pre-load, vibrations are significantly reduced.



Cylindrical (form S)



With flange (form F)

Order key

Type					d2	b1	Thread		
☐ S	R	M	-AB-	25	25	TR	10X2		
iglidur® material	Form S	Hand of rotation	Metric	Anti-backlash	Outer Ø [mm]	Length [mm]	Trapezoidal thread	Diameter [mm]	Pitch

Options:
Form S: Cylindrical
Form F: With flange

J	High efficiency at all speeds
R	The cost-effective option for high volume

Technical data – cylindrical design

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	Max. stat. axial F [N] iglidur® R
Cylindrical – form S					
Tr8x1.5	●	–	228	683	342
Tr10x2	●	–	283	848	424
Tr12x3	●	–	396	1,188	594
Tr16x4	●	–	704	2,111	1,056
Tr18x4	●	–	905	2,714	1,357
Tr20x4	●	–	1,131	3,393	1,696
Tr24x5	●	–	1,621	4,863	2,432

Technical data – with flange

Thread	Hand of rotation right	Hand of rotation left	Effective supporting surface [mm²]	Max. stat. axial F [N] iglidur® J	Max. stat. axial F [N] iglidur® R
With flange – form F					
Tr10x2	●	–	353	1,060	530
Tr10x3	●	–	334	1,001	501
Tr12x3	●	–	396	1,188	594
Tr14x4	●	–	471	1,414	707
Tr16x2	●	–	613	1,838	919
Tr16x4	●	–	704	2,111	1,056
Tr18x4	●	–	905	2,714	1,357
Tr20x4	●	–	1,131	3,393	1,696
Tr24x5	●	–	1,621	4,863	2,432

Dimensions [mm] – cylindrical design

d1[156]	d2[156]	b1[156]	Weight [g] iglidur® J	Weight [g] iglidur® R	Part No.
8	22	20	9.8	9.2	☐SRM-AB-2220-TR8X1.5
10	22	20	9.0	8.4	☐SRM-AB-2220-TR10X2
12	26	24	14.9	13.9	☐SRM-AB-2624-TR12X3
16	36	32	38.9	36.3	☐SRM-AB-3632-TR16X4
18	40	36	53.8	50.1	☐SRM-AB-4036-TR18X4
20	45	40	76.1	71.0	☐SRM-AB-4540-TR20X4
24	50	48	108.1	100.8	☐SRM-AB-5048-TR24X5

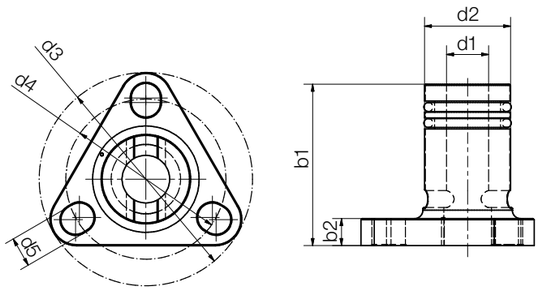
Dimensions [mm] – with flange

d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Weight [g] iglidur® J	Weight [g] iglidur® R	Part No.
10	25	42	34	5	25	10	28.7	26.8	☐FRM-AB-2525-TR10X2
10	25	42	34	5	25	10	28.7	26.8	☐FRM-AB-2525-TR10X3
12	28	48	35	5	35	12	30.3	28.3	☐FRM-AB-2835-TR12X3
14	28	48	38	6	35	12	45.4	42.4	☐FRM-AB-2835-TR14X4
16	28	48	38	6	35	12	43.0	40.1	☐FRM-AB-2835-TR16X2
16	28	48	38	6	35	12	43.0	40.1	☐FRM-AB-2835-TR16X4
18	28	48	38	6	35	12	40.2	37.5	☐FRM-AB-2835-TR18X4
20	32	55	45	7	44	12	60.2	56.2	☐FRM-AB-3244-TR20X4
24	32	55	45	7	44	12	51.2	47.7	☐FRM-AB-3244-TR24X5

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® TR | Lead screw nuts | Product range

Flange lead screw nuts with pre-load



Order key

Type						Thread		
J	F	R	M	-LC-	0001-	TR	10	X2
iglidur® material	Form F	Hand of rotation	Metric	Low Clearance	Type	Trapezoidal thread	Diameter [mm]	Pitch

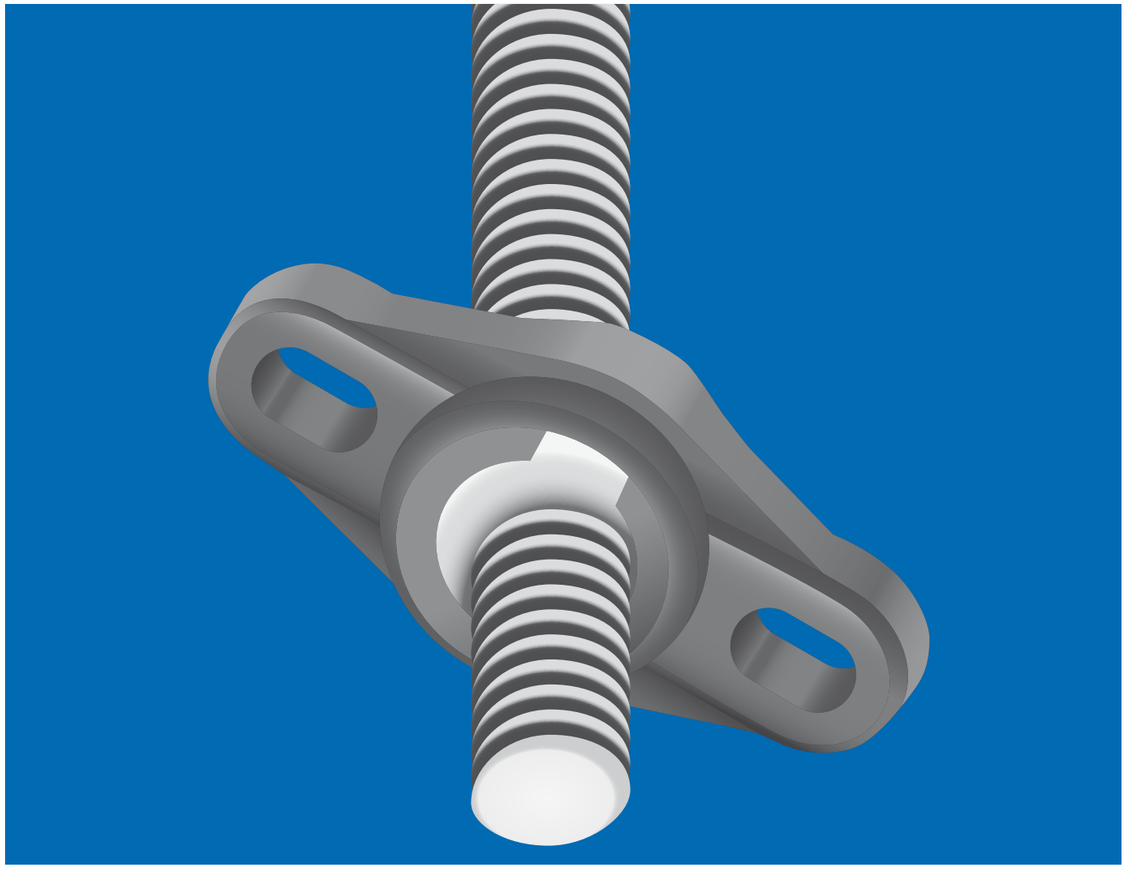
Technical data

Thread	Max. stat. axial F	Max. idling torque (with O-ring)	Weight	Part No.
Single start	[N]	[Nm]	[g]	
Tr8x1.5	75	0.01 – 0.03	6.8	JFRM-LC-0001-TR8X1.5
Tr10x2	75	0.01 – 0.03	6.8	JFRM-LC-0001-TR10X2
Tr10x3	75	0.01 – 0.03	6.8	JFRM-LC-0001-TR10X3
Tr12x3	125	0.06	18.0	JFRM-LC-0001-TR12X3
Tr14x3	125	0.08	18.0	JFRM-LC-0001-TR14X3
Tr14x4	125	0.08	18,0	JFRM-LC-0001-TR14X4
Multi start				
Tr06x2P1	40	0.01 – 0.03	3.9	JFRM-LC-0001-TR06X2P1
Tr12x6P3	125	0.06	18.0	JFRM-LC-0001-TR12X6P3

Dimensions [mm]

Thread	d1[156]	d2[156]	d3	d4	d5	b1[156]	b2	Part No.
Single start								
Tr8x1.5	8	16.0	38.1	28.3	5.2	28.3	4.8	JFRM-LC-0001-TR8X1.5
Tr10x2	10	16.0	38.1	28.3	5.2	28.3	4.8	JFRM-LC-0001-TR10X2
Tr10x3	10	16.0	38.1	28.3	5.2	28.3	4.8	JFRM-LC-0001-TR10X3
Tr12x3	12	20	41.2	31.8	4.8	44.0	7.0	JFRM-LC-0001-TR12X3
Tr14x3	14	20	41.2	31.8	4.8	44.0	7.0	JFRM-LC-0001-TR14X3
Tr14x4	14	20	41.2	31.8	4.8	44.0	7.0	JFRM-LC-0001-TR14X4
Multi start								
Tr06x2P1	6	10.0	28.5	22.2	3.7	25.0	4.1	JFRM-LC-0001-TR06X2P1
Tr12x6P3	12	20	41.2	31.8	4.8	44.0	7.0	JFRM-LC-0001-TR12X6P3

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)



drylin® lead screw technology – Special designs

- Angular compensation with spherical balls
- With "Fast Forward" quick release mechanism
- Split lead screw nuts
- Accessories for lead screw nuts and lead screws
- Lubrication and maintenance-free

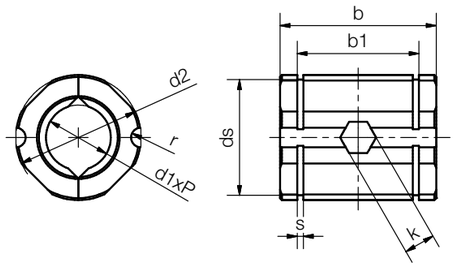
drylin® | Special geometries | Product range

Split lead screw nuts, made from iglidur® J

Order key

Part number				Dimension		Thread		
J	T	R	M-	22	30	-TR	10X	2
iglidur® material	Split nut	Hand of rotation	Metric	d2	b1	Trapezoidal thread	Diameter [mm]	Pitch

This part includes 2 nut halves and 1 piece nut each based on DIN 934 made from 304 stainless steel to prevent twisting



Technical data

Part No.	Max. axial load static[50] [N]	Max. axial load static[51] [N]	Mounting with nut DIN 934
JTRM-2230TR10X2	300	500	M4
JTRM-3240TR20X4	1,000	1,500	M5
JTRM-3240TR20X8P4	1,000	1,500	M5

Dimensions [mm]

Thread	b	b1[156]	d2	ds	k	r	s	Part No.
Tr10x2	30	22.6	22	20.5	7	1.5	1.3	JTRM-2230TR10X2
Tr20x4	40	31.2	32	29.6	8	2.5	1.6	JTRM-3240TR20X4
Tr20x8P4	40	31.2	32	29.6	8	2.5	1.6	JTRM-3240TR20X8P4

[50] Mounting in the housing via radially inserted nut DIN 934

[51] Mounting in the housing via circlips DIN 471

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

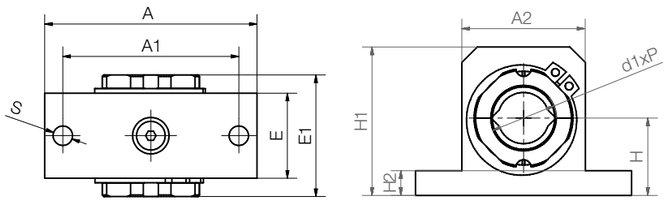
drylin® lead screw technology

drylin® | Special geometries | Product range

Also available with housing block

Order key

Part number								Thread		
RG	A	S -	J	T	R	M-		-TR	10X	2
Linear housing	Aluminium	Small	iglidur® material	Split nut	Hand of rotation	Metric		Trapezoidal thread	Diameter [mm]	Pitch



Technical data

Part No.	Nut	Locking ring
RGAS-JTRM-TR10X2	DIN 439 M4	DIN 471-A22
RGAS-JTRM-TR20X4	DIN 439 M5	DIN 471-A32
RGAS-JTRM-TR20X8P4	DIN 439 M5	DIN 471-A32

Dimensions [mm]

Thread	H	H1	H2	A	A1	A2	E	E1	S	Part No.
Tr10x2	18	35	6	52	42	30	20	32	5.3	RGAS-JTRM-TR10X2
Tr20x4	25	48	8	70	58	40	28	40	6.4	RGAS-JTRM-TR20X4
Tr20x8P4	25	48	8	70	58	40	28	40	6.4	RGAS-JTRM-TR20X8P4

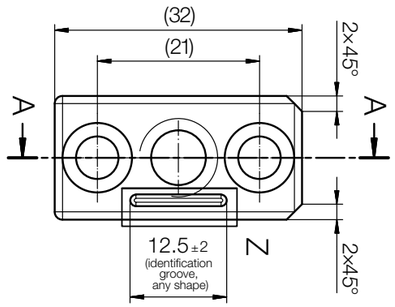
drylin® | Special geometries | Product range

Lead screw nuts for linear modules

Square lead screw nuts

DST-SHT-1210

SHT-1210-TR



Order key

Order example

DST-SHT-1210-DS10x12- J - □

High helix thread	SHT linear module	Installation size	Thread	iglidur® material	Hand of rotation

Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand

Dimensions

Part No.	Hand of rotation right	Hand of rotation left	Thread d1xP	From SHT linear module	
DST-SHT-1210-DS10x12-J-□	●	●	Ds10x12	SHT-12	▶ Page 1372
DST-SHT-1210-DS10x25-J-□	●	●	Ds10x25	SHT-12	▶ Page 1372
DST-SHT-1210-DS10x50-J-□	●	●	Ds10x50	SHT-12	▶ Page 1372
SHT-1210-TR10X2-J-□	●	●	Tr10x2	SHT-12	▶ Page 1372
SHT-1210-TR10X3-J-□	●	●	Tr10x3	SHT-12	▶ Page 1372

Part number suffix LH for left-hand thread, RH for right-hand thread

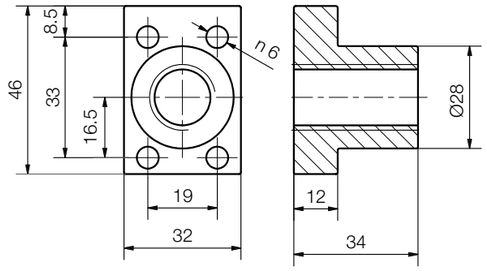
drylin® trapezoidal thread

drylin® | Special geometries | Product range

Lead screw nuts with flange

DST-SHT-2018

SHT-2018-TR



Please note: not symmetrical

Order key

Order example

DST-SHT-2018-DS18x24- J - □

High helix thread	SHT linear module	Installation size	Thread	iglidur® material	Hand of rotation

Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand

Dimensions

Part No.	Hand of rotation right	Hand of rotation left	Thread d1xP	From SHT linear module	
DST-SHT-2018-DS18x24-J-□	●	●	Ds18x24	SHT-20	▶ Page 1372
DST-SHT-2018-DS18x40-J-□	●	●	Ds18x40	SHT-20	▶ Page 1372
DST-SHT-2018-DS18x80-J-□	●	●	Ds18x80	SHT-20	▶ Page 1372
DST-SHT-2018-DS18x100-J-□	●	●	Ds18x100	SHT-20	▶ Page 1372
SHT-2018-TRM-18X4-□	●	●	Tr18x4	SHT-20	▶ Page 1372
SHT-2018-TRM-18X8-□	●	●	Tr18x8p4	SHT-20	▶ Page 1372

Part number suffix LH for left-hand thread, RH for right-hand thread

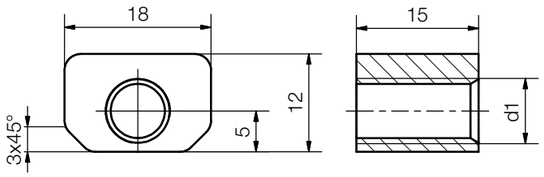
drylin® | Special geometries | Product range

Lead screw nuts for linear modules

Lead screw nuts

DST-SLW-063001

SWZ-063009



Order key

Order example

DST-SLW-063001-DS8x10-□

High helix thread	SLW linear module	Installation size	Thread	Hand of rotation

Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand

Dimensions

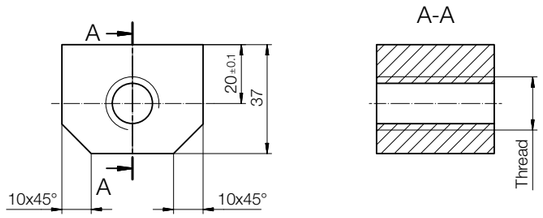
Part No.	Hand of rotation right	Hand of rotation left	Thread d1xP	From SLW linear module
DST-SLW-063001-DS8x10-□	●	●	Ds8x10	SLW-0630 ▶ Page 1386
DST-SLW-063001-DS8x15-□	●	●	Ds8x15	SLW-0630 ▶ Page 1386
SWZ-063001	●	–	M8	SLW-0630 ▶ Page 1386
SWZ-063003	–	●	M8	SLW-0630 ▶ Page 1386
SWZ-063009	●	–	Tr8x1.5	SLW-0630 ▶ Page 1386
SWZ-063010	–	●	Tr8x1.5	SLW-0630 ▶ Page 1386

Part number suffix LH for left-hand thread, RH for right-hand thread

drylin® trapezoidal thread

drylin® | Special geometries | Product range

Lead screw nuts



Order key

Order example

DST-SLW-25120-DS18x24-J-□

High helix thread	SLW linear module	Installation size	Thread	igliduR® material	Hand of rotation

Options:
Hand of rotation
RH: Right-Hand
LH: Left-hand

Dimensions

Part No.	Hand of rotation right	Hand of rotation left	Thread d1xP	From SLW linear module
DST-SLW-25120-DS18x24-J-□	●	●	Ds18x24	SLW-25120 ▶ Page 1386
DST-SLW-25120-DS18x40-J-□	●	●	Ds18x40	SLW-25120 ▶ Page 1386
DST-SLW-25120-DS18x80-J-□	●	●	Ds18x80	SLW-25120 ▶ Page 1386
DST-SLW-25120-DS18x100-J-□	●	●	Ds18x100	SLW-25120 ▶ Page 1386

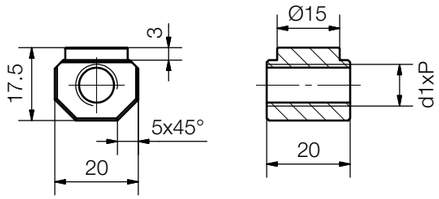
Part number suffix LH for left-hand thread, RH for right-hand thread

drylin® | Special geometries | Product range

Lead screw nuts with locating spigot

DST-SLW-1040

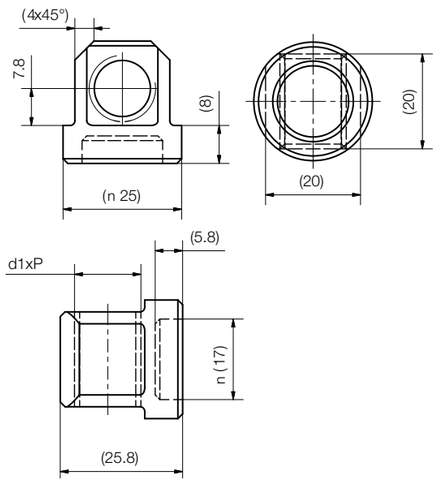
SWZ-W-10XX



Dimensions

Part No.		Thread d1xP	Hand of rotation	From SLW linear module
DST-SLW-1040-DS10X12-J-RH	New	Ds10x12	right-hand	SLW-1040 ▶ Page 1386
DST-SLW-1040-DS10X12-J-LH	New	Ds10x12	left-hand	SLW-1040 ▶ Page 1386
DST-SLW-1040-DS10X25-J-RH	New	Ds10x25	right-hand	SLW-1040 ▶ Page 1386
DST-SLW-1040-DS10X25-J-LH	New	Ds10x25	left-hand	SLW-1040 ▶ Page 1386
DST-SLW-1040-DS10X50-J-RH	New	Ds10x50	right-hand	SLW-1040 ▶ Page 1386
DST-SLW-1040-DS10X50-J-LH	New	Ds10x500	left-hand	SLW-1040 ▶ Page 1386
SWZ-W-104003		Tr10x2	right-hand	SLW-1040 ▶ Page 1386
SWZ-W-104004		Tr10x2	left-hand	SLW-1040 ▶ Page 1386
SWZ-W-104009		TR10x3	right-hand	SLW-1040 ▶ Page 1386
SWZ-W-104015		Tr10x3	left-hand	SLW-1040 ▶ Page 1386

SWZ-W-16XX



Dimensions

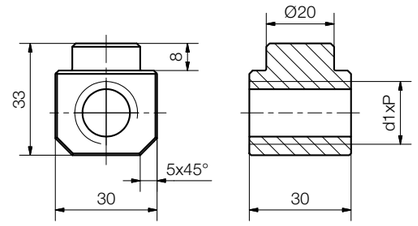
Part No.	Thread d1xP	Hand of rotation	From SLW linear module
SWZ-W-166001	TR14x4	right-hand	SLW-1660 ▶ Page 1386
SWZ-W-166002	Tr14x3	right-hand	SLW-1660 ▶ Page 1386
SWZ-W-166003	Tr14x4	left-hand	SLW-1660 ▶ Page 1386

drylin® lead screw technology

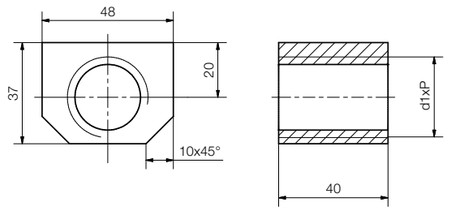
drylin® | Special geometries | Product range

DST-SLW-2080

SWZ-W-20XX



SWZ-W-2080..



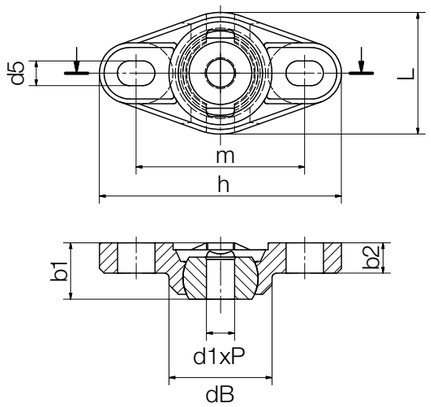
SWZ-W-25120..

Part No.		Thread d1xP	Hand of rotation	From SLW linear module
DST-SLW-2080-DS18X24-J-RH	New	Ds18x24	right-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X24-J-LH	New	Ds18x24	left-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X40-J-RH	New	Ds18x40	right-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X40-J-LH	New	Ds18x40	left-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X80-J-RH	New	Ds18x80	right-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X80-J-LH	New	Ds18x80	left-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X100-J-RH	New	Ds18x100	right-hand	SLW-2080 ▶ Page 1386
DST-SLW-2080-DS18X100-J-LH	New	Ds18x100	left-hand	SLW-2080 ▶ Page 1386
SWZ-W-208003		Tr18x4	right-hand	SLW-2080 ▶ Page 1386
SWZ-W-208004		Tr18x4	left	SLW-2080 ▶ Page 1386
SWZ-W-208008		Tr18x8p4	right-hand	SLW-2080 ▶ Page 1386
SWZ-W-208009		Tr18x8p4	left-hand	SLW-2080 ▶ Page 1386
SWZ-W-2512001[119)]		Tr24x5	right-hand	SLW-25120 ▶ Page 1386
SWZ-W-2512002[119)]		Tr24x5	left-hand	SLW-25120 ▶ Page 1386

[119)] Without locating spigot

drylin® | Special geometries | Product range

Angular compensation lead screw nut with spherical ball in flanged bearing housing



Order key

Part number						Thread		
J	F	R	K	M-EFOM-		TR 8X1.5		
iglidur® material	Form F	Hand of rotation	Dimensional series K	Metric	Flanged bearing housing	Trapezoidal thread	Diameter [mm]	Pitch

Options:
DS: High helix thread
TR: Trapezoidal thread

Dimensions [mm] – trapezoidal thread

Thread	Effective support surface [mm²]	d1[156]	h	L	b1[156]	b2	m	dB	d5	Max. static axial F [N]	Pivoting angle stat.	Pivoting angle dyn.	Part No.
Tr8x1.5	102	8	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR8X1.5
Tr10x2	127	10	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR10X2
Tr10x3	120	10	52	26	12	6.5	36	22.2	5.3x8	100	25°	30°	JFRKM-EFOM-TR10X3

Dimensions [mm] – high helix thread

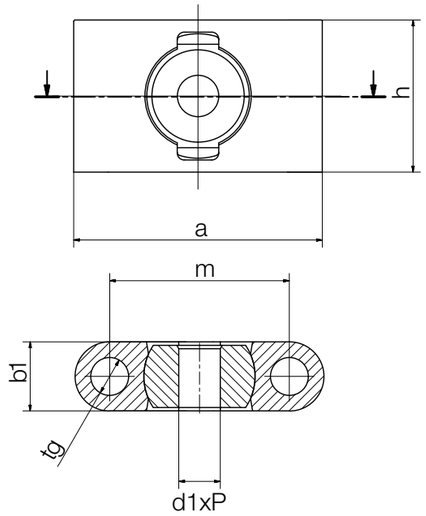
Thread	Effective support surface [mm²]	d1[156]	h	L	b1[156]	b2	m	dB	d5	Max. static axial F [N]	Pivoting angle stat.	Pivoting angle dyn.	Part No.
Ds8x15	61	8	52	26	12	6.5	36	22.2	5.3x8	50	25°	30°	JFRKM-EFOM-DS8X15
Ds10x12	82	10	52	26	12	6.5	36	22.2	5.3x8	50	25°	30°	JFRKM-EFOM-DS10X12

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® lead screw technology

drylin® | Special geometries | Product range

Angular compensation lead screw nut with spherical ball in pillow block bearing housing



Order key

Part number						Thread		
J	F	R	K	M-ESTM-		TR 8X1.5		
iglidur® material	Form F	Hand of rotation	Dimensional series K	Metric	Pillow block bearing housing	Trapezoidal thread	Diameter [mm]	Pitch

Options:
DS: High helix thread
TR: Trapezoidal thread

Dimensions [mm] – trapezoidal thread

Thread	Effective support surface [mm²]	h	a	b1[156]	m	tg	Max. static axial F [N]	Pivoting angle stat.	Pivoting angle dyn.	Part No.
Tr8x1.5	102	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR8X1.5
Tr10x2	127	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR10X2
Tr10x3	120	22	36	10	26	5.5	100	25°	30°	JFRKM-ESTM-TR10X3

Dimensions [mm] – high helix thread

Thread	Effective support surface [mm²]	h	a	b1[156]	m	tg	Max. static axial F [N]	Pivoting angle stat.	Pivoting angle dyn.	Part No.
Ds8x15	61	22	36	10	26	5.5	50	25°	30°	JFRKM-ESTM-DS8X15
Ds10x12	82	22	36	10	26	5.5	50	25°	30°	JFRKM-ESTM-DS10X12

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® | Special geometries | Product range

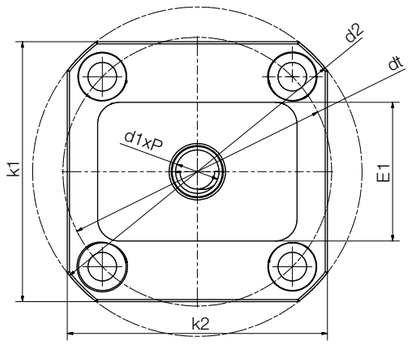
Lead screw nut with quick-release – Fast Forward

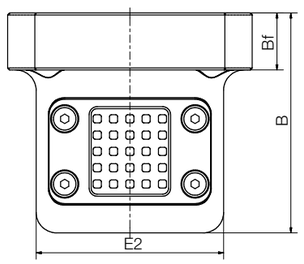
Quick release mechanism: A combination of accurate positioning and fast manual adjustment with trapezoidal lead screw nuts.

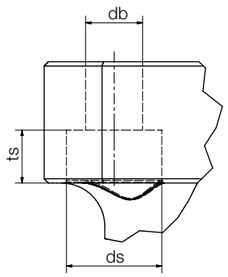
- For quick format adjustments
- Incl. 'stop/go' through automatic self-locking with thread
- Housing: AL anodised, lead screw nut made from iglidur® J
- Tough and reliable
- Only recommended for horizontal applications
- Max. axial load stat.: 200N, dyn.: 50N
  see SHT-FF ▶ Page 1380

Order key

Part number					Thread	
F	T	R	M-	FF	-10X2	
Form F	Trapezoidal thread	Hand of rotation	Metric	Fast Forward	Diameter	Pitch







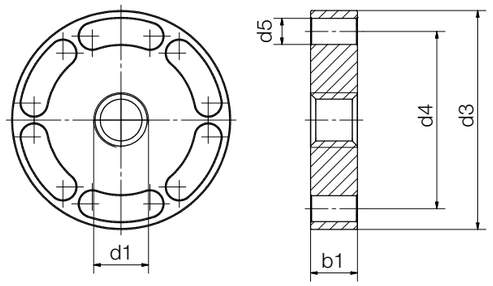
Dimensions [mm]

Thread	d2[156]	dt	B	Bf	ts	db	ds	k1	k2	E1	E2	Part No.
Tr10x2	76	62	54	14	6.1	6.6	11	60	60	32	46	FTRM-FF-10X2

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® | Special geometries | Product range

drylin® discs made from iglidur® J



Order key

Type				d3	b1	Thread		
J	D	R	M-	42	09	TR	10X2	
iglidur® material	Form: disc	Hand of rotation	Metric	Outer Ø [mm]	Height [mm]	Trapezoidal thread	Diameter	Pitch

Material properties:
iglidur® J ▶ Page 159

Technical data and dimensions [mm]

Thread	Effective supporting surface [mm²]	Max. stat. axial F[49] [N]	d1[156]	d3	d4	d5	b1[156]	Weight [g]	Part No.
Tr10x2	127	508	10	42	34	5	9	17.5	JDRM-4209TR10X2
Tr12x3	181	724	12	48	38	6	11	27.8	JDRM-4811TR12X3
Tr14x4	207	828	14	48	38	6	11	27.1	JDRM-4811TR14X4
Tr16x4	241	964	16	48	38	6	11	26.4	JDRM-4811TR16X4
Tr18x4	276	1,104	18	48	38	6	11	25.5	JDRM-4811TR18X4
Tr20x4	367	1,468	20	55	45	7	13	39.9	JDRM-5513TR20X4
Tr24x5	439	1,756	24	55	45	7	13	37.3	JDRM-5513TR24X5
Tr30x6	551	2,204	30	62	50	7	14	48.2	JDRM-6214TR30X6
Tr36x6	829	3,316	36	70	58	7	16	67.5	JDRM-7016TR36X6

[49] Max. stat. F axial can be added when used with flange nut

[156] Tolerances according to DIN ISO 2768-1, tolerance class m (medium)

drylin® | Special geometries | Product range

Assembled drylin® lead screw nut housing, including lead screw nut

- Standard lead screw nuts secured with fixing screws
- Can be fixed from above
- One housing is suitable for many thread geometries
- Limitless combinations

Order key

Part number

MH-1210-AL-TR10X2-R-J

Lead screw nut housings	Nut design (see drawing)	Aluminium	Thread size	Right-hand thread	iglidur® J nut

MHM-2835-AL-□ / MHM-3244-AL-□

MHM-ZB0810-AL-□

MHM-2018-AL-□

MHM-1210-AL-□

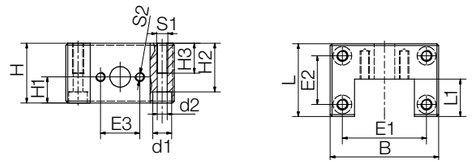
Please use MHM (Assembled lead screw nut housing, including lead screw nut) for fully assembled systems. Order example: MHM-1210-AL-TR10x2-R-J

drylin® lead screw technology

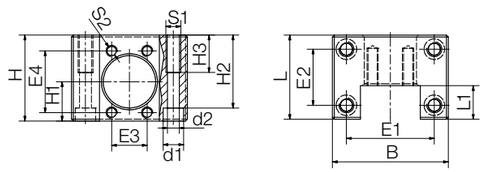
drylin® | Special geometries | Product range

drylin® lead screw nut housings and lead screw nuts as an individual part

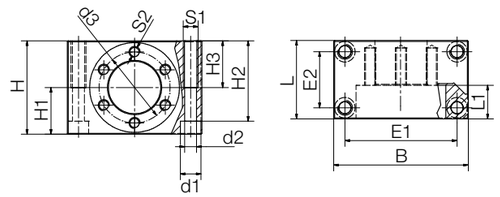
MH-1210-AL



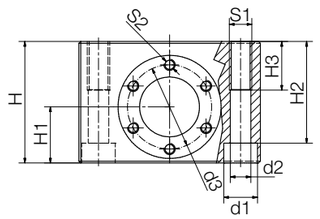
MH-2018-AL



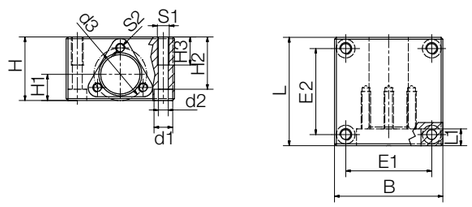
MH-2835-AL

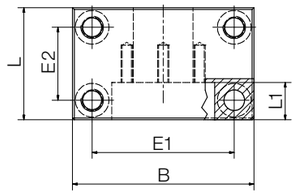


MH-3244-AL



MH-ZB0810-AL





Dimensions [mm]

Part No.	H	H1	H2	H3	S1	S2	B ±0.3	L ±0.3	L1	E1 ±0.15	E2 ±0.15	E3	E4	d1	d2	d3	Can be combined with SLS
MH-1210-AL	32	14	26	16	M6	M5	58	39	20	45	26	21	–	10	5.3	–	●
MH-2018-AL	46	21	39	20	M8	M6	62	45	18	47	30	19	33	11	6.4	–	●
MH-2835-AL	50	25	43	25	M8	M6	72	42	18	60	30	–	–	11	6.4	38	–
MH-3244-AL	65	30	54.4	26	M12	M6	97	60	20	76	39	–	–	18	11	45	●
MH-ZB0810-AL	34	14	28	15	M6	M5	58	34	9	46	46	–	–	10	5.3	28.2	●

Part No.	Nut design	Thread size
MH-1210-AL	SHT-1210-TRM	Tr10x2 / Tr10x3 / Ds10x12 / Ds10x50
MH-2018-AL	SHT-2018-TRM	Tr18x4 / Tr18x8P4 / Ds18x24 / Ds18x100
MH-2835-AL	FRM-2835	Tr12x3 / Tr12x6P3 / Ds12x25 / Tr14x3 / Tr14x4 / Tr16x2 / Tr16x4 / Tr16x8P4 / Tr18x4 / Tr18x8P4 / Ds18x24 / Ds18x100
MH-3244-AL	FRM-3244	Tr20x4 / Tr20x8P4 / Tr24x5
MH-ZB0810-AL	Zero-backlash	Ds08x10 / Ds08x15 / Ds10x12 / Ds10x50

drylin® | Special geometries | Product range

Lead screw support blocks

Order key

Part No.	Thread	Options
SLS - 10X2	-	FL - LH

Lead screw support block | Diameter | Pitch | Fixed bearing | Option left-hand thread

Scope of delivery: Anodised lead screw support block

FL: Fixed bearing with anodised clamping ring with RH thread (standard) and maintenance-free iglidur® plain bearing[52)]

LL: Floating bearing with maintenance-free iglidur® plain bearing

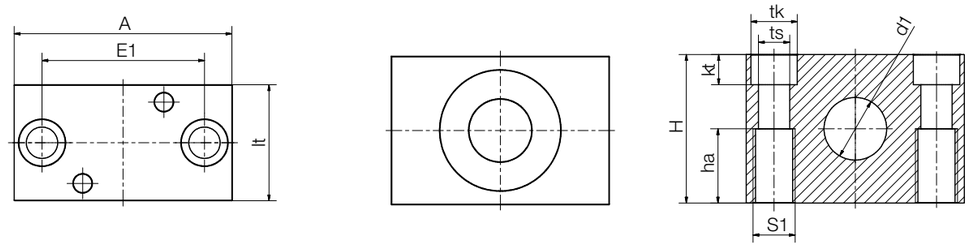
Options:

FL: Fixed bearing

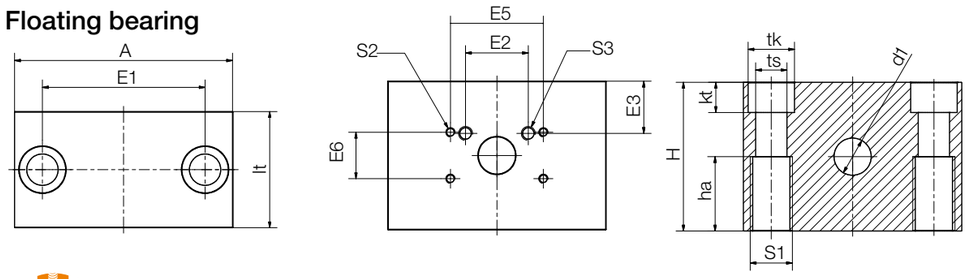
LL: Floating bearing

LH: Left-hand thread option only for Tr10x2, Tr10x3, Tr18x4, Tr24x5

Fixed bearing



Floating bearing



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Technical data and dimensions [mm] – (for both right and left-hand threads)

Part No.		Weight [g]	Max. static load capacity axial [N]	S1	S2	S3
SLS-10X2-FL (LH)		88	700	M8	–	–
SLS-10X2-LL		115	–	M8	M4	M6
SLS-10X3-FL (LH)		88	700	M8	–	–
SLS-10X3-LL		115	–	M8	M4	M6
SLS-10X12-FL		88	700[53)]	M8	–	–
SLS-10X12-LL		115	–	M8	M4	M6
SLS-10X50-FL		88	700[53)]	M8	–	–
SLS-10X50-LL		115	–	M8	M4	M6
SLS-12X3-FL	New	205	1,600	M12	–	–
SLS-12X3-LL	New	295	–	M12	M4	M6
SLS-14X3-FL	New	205	1,600	M12	–	–
SLS-14X3-LL	New	295	–	M12	M4	M6
SLS-14X4-FL	New	205	1,600	M12	–	–
SLS-14X4-LL	New	295	–	M12	M4	M6
SLS-16X2-FL	New	205	1,600	M12	–	–
SLS-16X2-LL	New	295	–	M12	M4	M6
SLS-16X4-FL	New	205	1,600	M12	–	–
SLS-16X4-LL	New	295	–	M12	M4	M6

[52)] FL lead screw support block with trapezoidal thread TR10x2, TR10x3, TR18x4, TR24x5 lead screw also available with clamping rings with left-hand thread

[53)] Can exceed max. stat. load of the nut

[54)] Lead screw end must be turned to d1 value

[55)] Lead screw end must be turned to 18mm

Dimensions [mm] – (for both right and left-hand threads)

A	H	E1	E2	E3	E5	E6	lt	kt	tk	ts	d1	ha
50	32	36	–	–	–	–	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
50	32	36	–	–	–	–	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
50	32	36	–	–	–	–	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
50	32	36	–	–	–	–	30	6.5	11	6.6	10	16
50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
72	46	54	–	–	–	–	36	8.6	15	9	12	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
72	46	54	–	–	–	–	36	8.6	15	9	14	23
72	46	54	27	13.5	40	20	36	8.6	15	9	14	23
72	46	54	–	–	–	–	36	8.6	15	9	14	23
72	46	54	27	13.5	40	20	36	8.6	15	9	14	23
72	46	54	–	–	–	–	36	8.6	15	9	16	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23
72	46	54	–	–	–	–	36	8.6	15	9	16	23
72	46	54	27	13.5	40	20	36	8.6	15	9	12	23

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Lead screw support blocks

drylin® lead screw technology

Technical data and dimensions [mm] – (for both right and left-hand threads)

Part No.		Weight [g]	Max. static load capacity axial [N]	S1	S2	S3	A	H	E1	E2	E3	E5	E6	lt	kt	tk	ts	d1	ha
SLS-18X4-FL (LH)		205	1,600	M12	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	18	23
SLS-18X4-LL[54]		295	–	M12	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
SLS-18X8P4-FL		205	1,600	M10	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	18	23
SLS-18X8P4-LL[54]		295	–	M10	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
SLS-18X24-FL[55]		205	1,600[53]	M10	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	18	23
SLS-18X24-LL[54]		295	–	M10	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
SLS-18X100-FL[55]		205	1,600[53]	M10	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	18	23
SLS-18X100-LL[54]		295	–	M10	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
SLS-20X4-FL	New	525	2,500	M16	–	–	94	64	70	–	–	–	–	50	13	20	13.5	12	32
SLS-20X4-LL	New	725	–	M16	M4	M6	94	64	70	27	22.5	40	20	50	13	20	13.5	20	32
SLS-24X5-FL (LH)		525	2,500	M16	–	–	94	64	70	–	–	–	–	50	13	20	13.5	24	32
SLS-24X5-LL[54]		725	–	M16	M4	M6	94	64	70	27	22.5	40	20	50	13	20	13.5	14	32
Lead screw support blocks with plain bearings (clamping rings without thread)																			
SLS-S6-FL	New	115	–	M8	–	–	50	32	36	–	–	–	–	30	6.5	11	6.6	6	16
SLS-S6-LL	New	88	150	M8	M4	M6	50	32	36	27	6.5	40	20	30	6.5	11	6.6	6	16
SLS-S6.35-FL	New	115	–	M8	–	–	50	32	36	–	–	–	–	30	6.5	11	6.6	6.35	16
SLS-S6.35-LL	New	88	150	M8	M4	M6	50	32	36	27	6.5	40	20	30	6.5	11	6.6	6.35	16
SLS-S8-FL	New	115	–	M8	–	–	50	32	36	–	–	–	–	30	6.5	11	6.6	8	16
SLS-S8-LL	New	88	500	M8	M4	M6	50	32	36	27	6.5	40	20	30	6.5	11	6.6	8	16
SLS-S10-FL	New	88	700	M8	–	–	50	32	36	–	–	–	–	30	6.5	11	6.6	10	16
SLS-S10-LL	New	115	–	M8	M4	M6	50	32	36	27	6.5	40	20	30	6.5	11	6.6	10	16
SLS-S12-FL	New	205	1,600	M12	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	12	23
SLS-S12-LL	New	295	–	M12	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	12	23
SLS-S14-FL	New	205	1,600	M12	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	14	23
SLS-S14-LL	New	295	–	M12	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	14	23
SLS-S16-FL	New	205	1,600	M12	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	12	23
SLS-S16-LL	New	295	–	M12	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	16	23
SLS-S18-FL	New	205	1,600	M12	–	–	72	46	54	–	–	–	–	36	8.6	15	9.0	12	23
SLS-S18-LL	New	295	–	M12	M4	M6	72	46	54	27	13.5	40	20	36	8.6	15	9.0	18	23
SLS-S20-FL	New	525	2,500	M16	–	–	94	64	70	–	–	–	–	50	13.0	20	13.5	12	32
SLS-S20-LL	New	725	–	M16	M4	M6	94	64	70	27	22.5	40	20	50	13.0	20	13.5	20	32

[53] Can exceed max. stat. load of the nut

[54] Lead screw end must be turned to d1 value

[55] Lead screw end must be turned to 18mm

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Lead screw support blocks with ball bearings

Order key

Part No.	Thread	Options
SLS -	10X2 -	BB
Lead screw support block	Diameter	Pitch	Ball bearing

Options:
- BB: Ball bearings
- FL: Fixed bearing
- LL: Floating bearing

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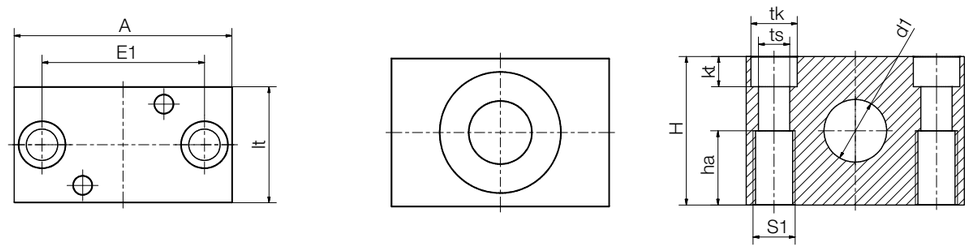
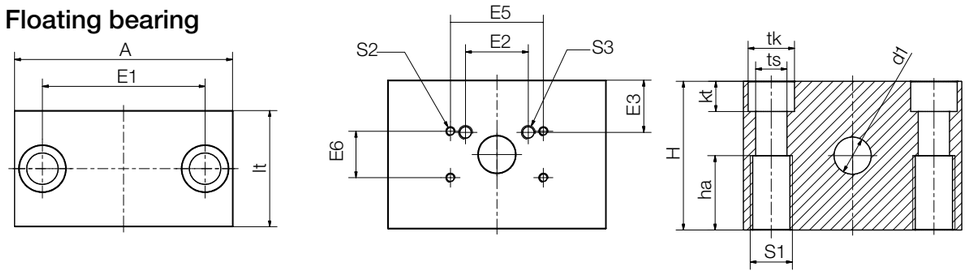
Fixed bearing



Floating bearing



Technical data and dimensions, ball bearing [mm]

Part No.		Weight [g]	Max. stat. load capacity axial [N]	S1	S2
SLS-S6-BB	New	110	150	M8	M4
SLS-S6.35-BB	New	110	150	M8	M4
SLS-S8-BB	New	110	350	M8	M4
SLS-S10-BB	New	110	350	M8	M4
SLS-S12-BB	New	265	1,000	M12	M4
SLS-S14-BB	New	265	1,000	M12	M4
SLS-S16-BB	New	265	1,000	M12	M4
SLS-S18-BB	New	265	1,000	M12	M4
SLS-S20-BB	New	350	1,500	M16	M4
SLS-10X2-BB		110	350	M8	M4
SLS-10X3-BB	New	110	350	M8	M4
SLS-10X12-BB		110	350	M8	M4
SLS-10X50-BB		110	350	M8	M4
SLS-12X3-BB	New	265	1,000	M12	M4
SLS-14X4-BB	New	265	1,000	M12	M4
SLS-16X2-BB	New	265	1,000	M12	M4
SLS-16X4-BB	New	265	1,000	M12	M4
SLS-18X4-BB	New	265	1,000	M12	M4
SLS-18X8P4-BB		265	1,000	M10	M4
SLS-18X24-BB[55)]		265	1,000	M10	M4
SLS-18X100-BB[55)]		265	1,000	M10	M4
SLS-20X4-BB	New	350	1,500	M16	M4
SLS-24X5-BB		350	1,500	M16	M4

[55)] Lead screw end must be turned to 18mm

Dimensions, ball bearing [mm]

A	H	E1	E5	E6	lt	kt	tk	ts	d1	ha
50	32	36	40	20	30	6.5	11	6.6	6	16
50	32	36	40	20	30	6.5	11	6.6	6.35	16
50	32	36	40	20	30	6.5	11	6.6	8	16
50	32	36	40	20	30	6.5	11	6.6	10	16
72	46	54	48	36	36	8.6	15	9.0	12	23
72	46	54	48	36	36	8.6	15	9.0	14	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	18	23
94	64	70	48	36	50	13.0	20	13.5	20	32
50	32	36	40	20	30	6.5	11	6.6	10	16
50	32	36	40	20	30	6.5	11	6.6	10	16
50	32	36	40	20	30	6.5	11	6.6	10	16
50	32	36	40	20	30	6.5	11	6.6	10	16
72	46	54	48	36	36	8.6	15	9.0	12	23
72	46	54	48	36	36	8.6	15	9.0	14	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	16	23
72	46	54	48	36	36	8.6	15	9.0	18	23
72	46	54	48	36	36	8.6	15	9.0	18	23
72	46	54	48	36	36	8.6	15	9.0	18	23
72	46	54	48	36	36	8.6	15	9.0	18	23
94	64	70	48	36	50	13.0	20	13.5	20	32
94	64	70	48	36	50	13.0	20	13.5	24	32

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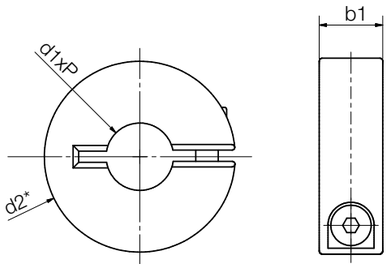
drylin® clamping rings, right and left-hand thread



Order key

Part number	Thread

CR R - 01 - TR 10X 2

Clamping rings	Hand of rotation	Type	Trapezoidal thread	Diameter	Pitch

Dimensions [mm]

Thread	d2[56]	b1	Max. static axial F	Part No.
	h9		[N]	Right-hand thread
Tr8x1.5	16	9	1,530	CRR-01-TR8X1.5
Tr10x2	24	8	1,800	CRR-01-TR10X2
Tr12x3	28	8	2,096	CRR-01-TR12X3
Tr14x4	30	11	3,312	CRR-01-TR14X4
Tr16x4	34	11	3,840	CRR-01-TR16X4
Tr18x4	36	13	5,216	CRR-01-TR18X4
Tr20x4	45	15	6,784	CRR-01-TR20X4
Tr24x5	45	15	8,096	CRR-01-TR24X5

Thread	d2[56]	b1	Max. static axial F	Part No.
	h9		[N]	Left-hand thread
Tr8x1.5	16	9	1,530	CRL-01-TR8X1.5
Tr10x2	24	8	1,800	CRL-01-TR10X2
Tr12x3	28	8	2,096	CRL-01-TR12X3
Tr14x4	30	11	3,312	CRL-01-TR14X4
Tr16x4	34	11	3,840	CRL-01-TR16X4
Tr18x4	36	13	5,216	CRL-01-TR18X4
Tr20x4	45	15	6,784	CRL-01-TR20X4
Tr24x5	45	15	8,096	CRL-01-TR24X5

[56] Outside dimension clamping ring. Screw head may protrude. Installation dimension d2 (+2mm)

Dimensions [mm] – clamping ring without thread

ø	d2	b1	Part No.
10	24	8	KRM-S10-V
12	28	11	KRM-S12-V
14	30	11	KRM-S14-V
16	34	11	KRM-S16-V
18	36	13	KRM-S18-V
24	45	15	KRM-S24-V

My sketches